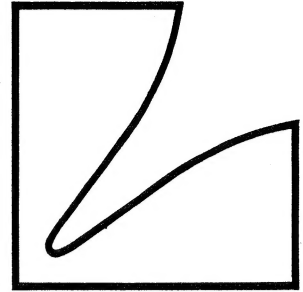


SERVICE MANUAL



Stereo Cassette Deck

K-112



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Specifications

Power Source	AC120V, 60Hz (UC, UQ model only) AC220~240V, 50/60Hz (AD model only)
Tape Speed (MTT-111)	4.76cm/sec. $\pm 2\%$
Wow & Flutter (MTT-111, JIS WRMS)	0.1%
FF/REW Time (C-60)	105 sec.
Frequency Response (Playback, ± 4 dB)	Normal : 40Hz~14kHz CrO ₂ : 40Hz~15kHz Metal : 40Hz~16kHz
S/N Ratio (JIS weighted "A" curve)	Dolby NR-OFF : Normal 50 dB, CrO ₂ /Metal 50 dB Dolby NR-B : Normal/CrO ₂ /Metal 57 dB Dolby NR-C : Normal/CrO ₂ /Metal 63 dB
Input Sensitivity	Line : 100mV
Output Level/Impedance	Line : 500mV ± 1.5 dB/47K ohm Headphone : 100mV/8 ohm
Distortion 3rd (0 dBm input at 333Hz)	Normal/CrO ₂ : 3% Metal : 3.5%
Semiconductors	18 IC's, 52 Transistors, 40 Diodes, 5 Zener Diodes
Chassis Dimensions	438 (W) \times 110 (H) \times 318.5 (D) mm
Weight	4.3kg

NOTE : Due to continuing product improvement, specifications and design are subject to change without notice.

Parts Locations and Disassembly Instructions

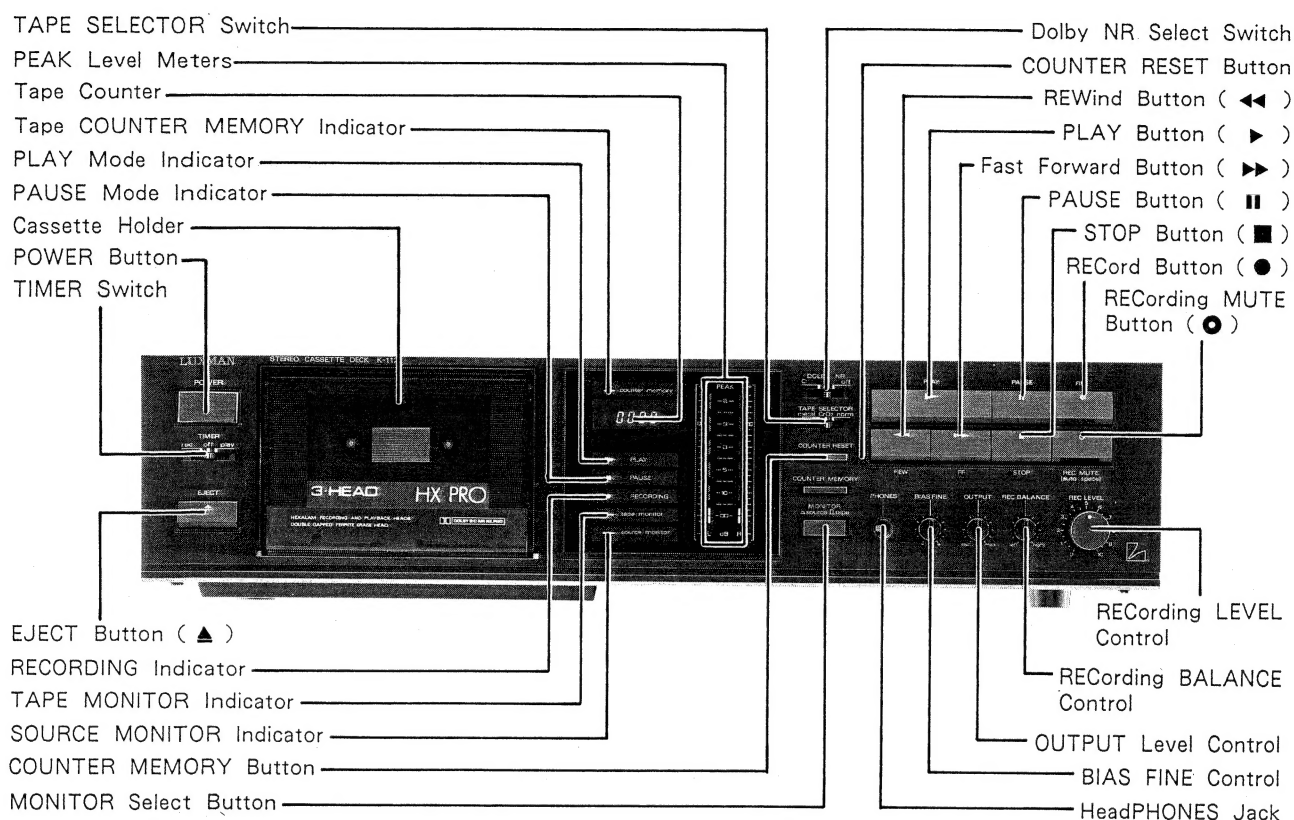


Figure 1

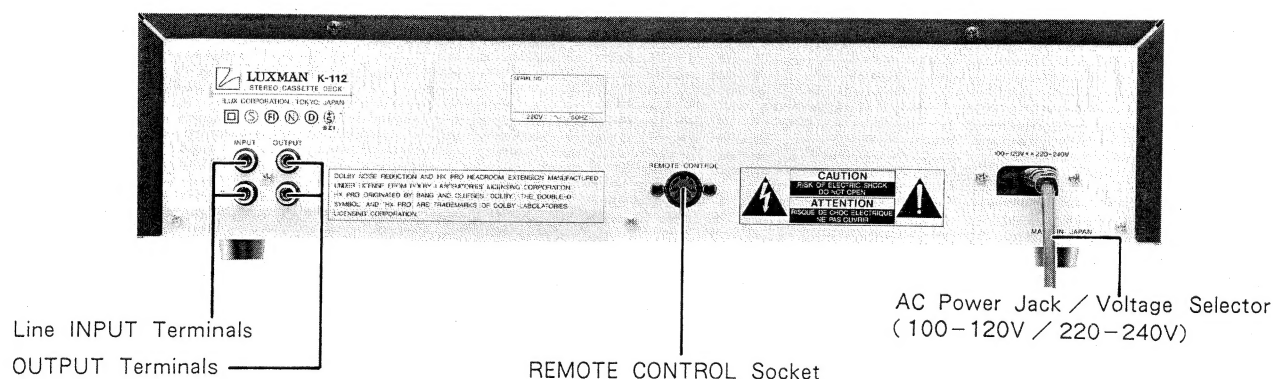


Figure 2

1. Removal of Top Cover

- (1) Remove six screws marked (A) on the rear and both sides as shown in Figure 3.
- (2) Remove the top cover by spreading and lifting it.

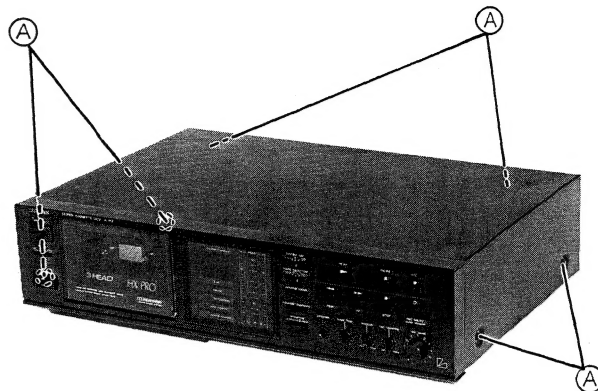


Figure 3

2. Removal of Front Panel

- (1) After removal of top cover, remove the two screws marked (B) beside the power switch as shown in Figure 4.
- (2) Remove one screw marked (C) of the timer switch as shown in Figure 4.
- (3) After removal of all connectors on the Main P. C. Board, remove six screws marked (D) on the bottom as shown in Figure 5 and remove the front panel by pulling ahead.

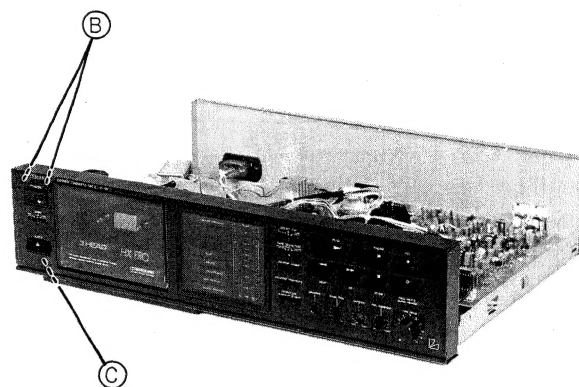


Figure 4

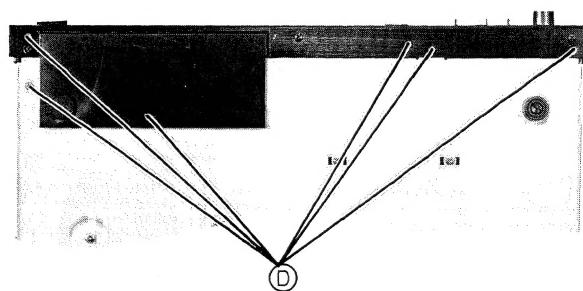


Figure 5

3-1 Removal of Cassette Mechanism.

- (1) After removal of the front panel, open the cassette door by pressing the eject button.
- (2) Remove 3P plug on LED P. C. Board and four red screws marked (E) on the mechanism as shown in Figure 6.

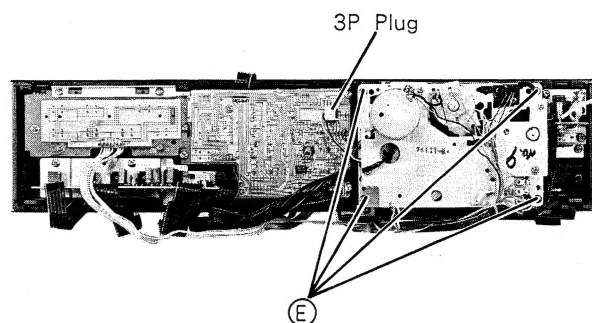


Figure 6

3-2 Removal of Operation P. C. Board

- (1) After removal of the front panel, remove two screws marked (F) on the stay bracket as shown in Figure 7.
- (2) Remove four screws marked (G) on the Operation P. C. Board as shown in Figure 7.

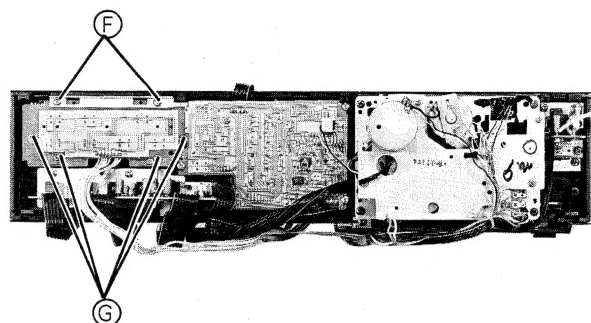


Figure 7

3-3 Removal of LED P. C. Board

- (1) After removal of Operation P. C. Board, remove four screws marked (H) on the LED P. C. Board as shown in Figure 8.

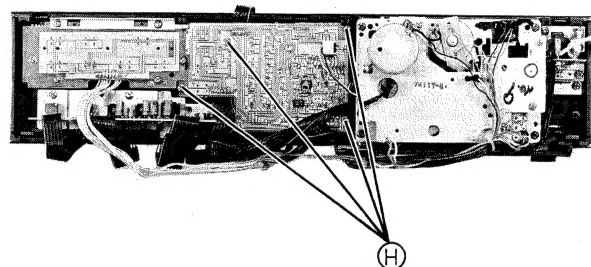


Figure 8

3-4 Removal of Volume P. C. Board

- (1) After removal of LED P. C. Board, remove two screws marked (I) of the volume bracket as shown in Figure 9.

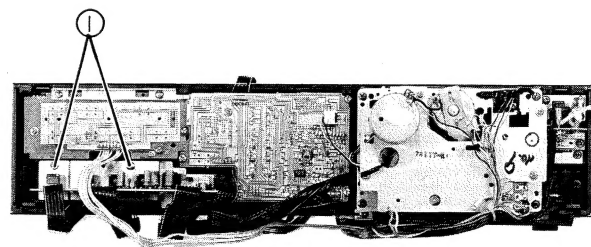


Figure 9

4. Removal of Main P. C. Board

- (1) After removal of the front panel, remove one screw marked (K) on the pin jack part and two rivets marked (J) on the remote control part as shown in Figure 10.
- (2) Release the chassis claw marked (M) supporting the main P. C. Board in the direction of arrow as shown in Figure 10.
- (3) Press the P. C. Board supports marked (L) in the direction of arrow and lift the main P. C. Board as shown in Figure 10.

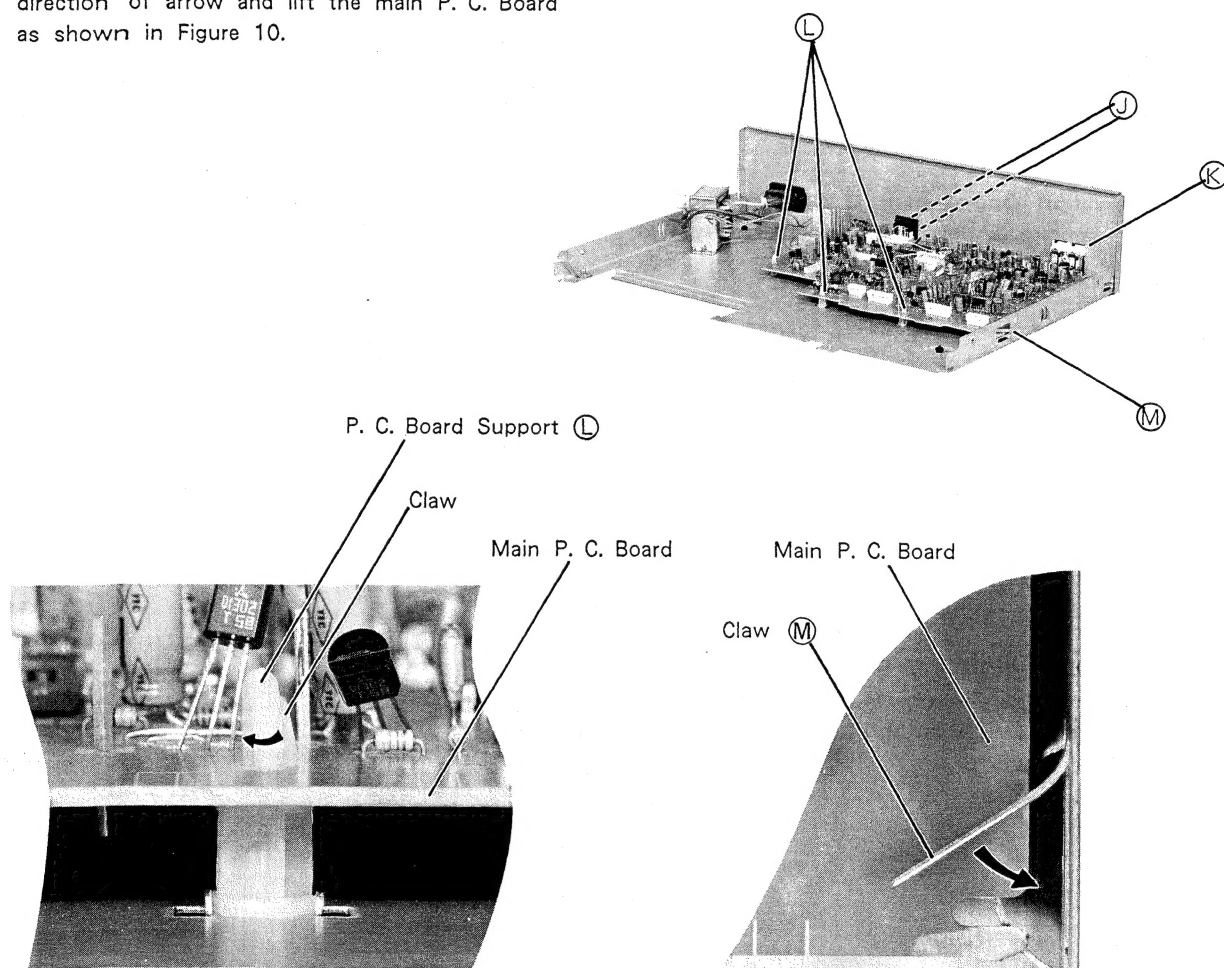


Figure 10

Adjustment Procedures

- TEST EQUIPMENTS
- 1. VTVM (Vacuum Tube Voltmeter)
 - 2. Signal Generator
 - 3. Resistance Attenuator
 - 4. Screwdriver
 - 5. Test Tapes:
 - MTT-111 (Speed 3 kHz – 5 dB)
 - MTT-114 (Azimuth 10 kHz)
 - MTT-150 (Dolby 400 Hz Modulation)
 - AC-512 (Chrome Tape)
 - 6. Frequency Counter

1. HEAD AZIMUTH ADJUSTMENT

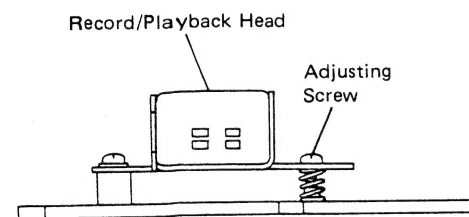


Figure 11

2. TAPE SPEED

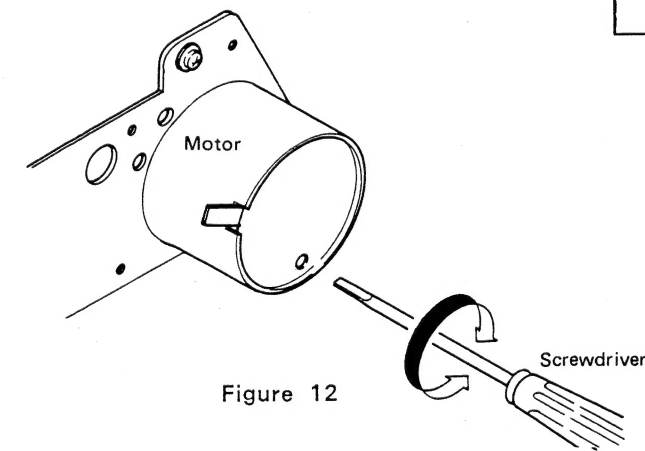


Figure 12

3. PLAYBACK SENSITIVITY ADJUSTMENT

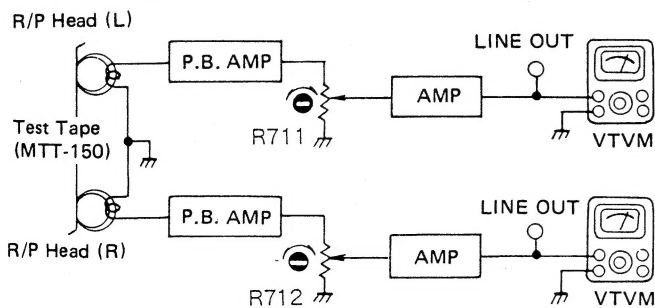


Figure 13

4. BIAS OSCILLATOR ADJUSTMENT

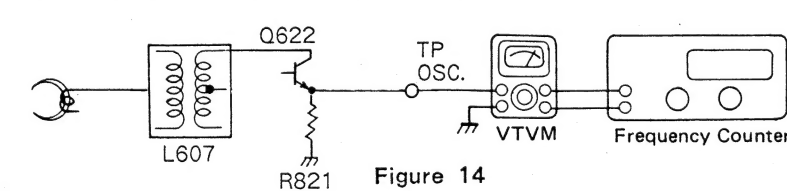


Figure 14

5. LINE INPUT SENSITIVITY ADJUSTMENT

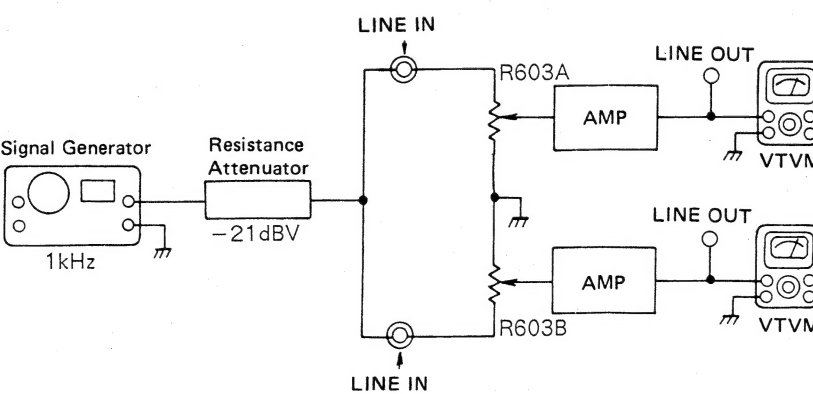


Figure 15

6. RECORD/PLAYBACK FREQUENCY ADJUSTMENT

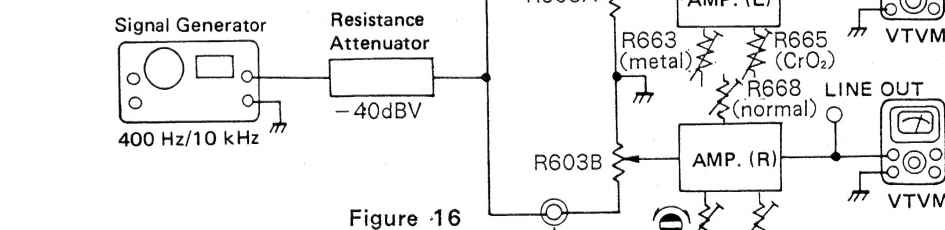


Figure 16

7. RECORD/PLAYBACK SENSITIVITY ADJUSTMENT

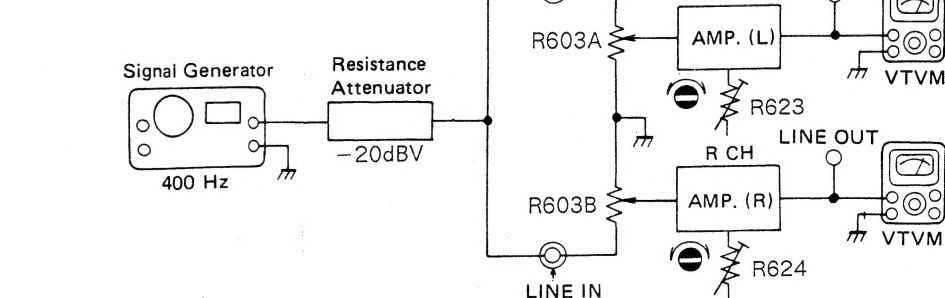
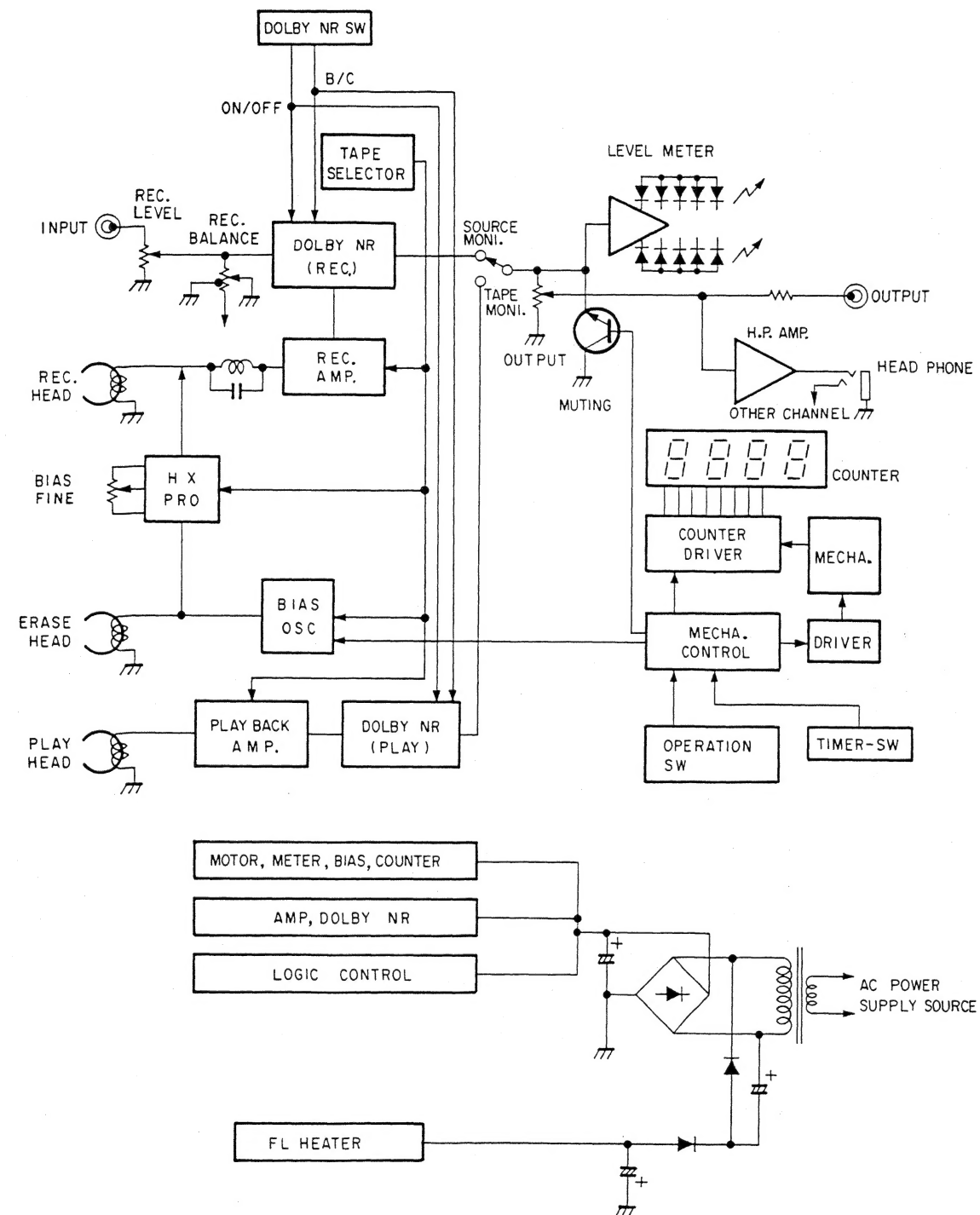


Figure 17

No.	Adjustment Item	Test Value	Test Tape	Rec. Level Control R407	Switch Position			Adjustable Parts	Test Point	Input Frequency	Connection	Remarks
					TAPE	NR	INPUT					
1	Head Azimuth Adjustment	Maximum	MTT-114		NOR	OUT		Adjusting Screw	LINE OUT	—	See Figure 11	Apply a lock paint after adjustment.
2	Tape Speed	3000 ±30 Hz	MTT-111		NOR	OUT		Internal Semifixed VR of Motor	LINE OUT	—	See Figure 12	Take-up beginning of tape.
3	Playback Sensitivity Adjustment	500±10mV	MTT-150		NOR	OUT		R711, 712	LINE OUT	—	See Figure 13	
4	Bias Oscillator Adjustment	105kHz	—		METAL	OUT		L607	TP OSC.	—	See Figure 14	REC
5	Line Input Sensitivity Adjustment	500±10mV	—	Adjustment	NOR	OUT	LINE IN	REC-VR R603A, 603B	LINE OUT	1kHz -21dB	See Figure 15	Do not vary REC-VR after adjustment.
6	Rec/PB Frequency Adjustment	0 ± 1 dB	AC-223	Adjustment	NOR	OUT	LINE IN	R667, 668	LINE OUT	400Hz 10kHz -41dB	See Figure 16	Variation of 10 kHz to 400 Hz.
			AC-512		CrO ₂			R665, 666		400Hz 10kHz -41dB		
			AC-712		METAL			R663, 664		400Hz 10kHz -21dB		
7	Rec/PB Sensitivity Adjustment	Monitor Output	AC-223	Adjustment	NOR	OUT	LINE IN	R623, 624	LINE OUT	1kHz -21dB	See Figure 17	Monitor Output : 500mV (Reference Value)
Measurement Condition												
• Power Supply: AD = 220 ~ 240V, UC, UQ = 120V • Input: 0 dB 1V rms • LINE IN (Input Impedance): 600 ohms • LINE OUT (Load Impedance): 47K ohm • Test Point Load Impedance: Non Load.												

Block Diagram

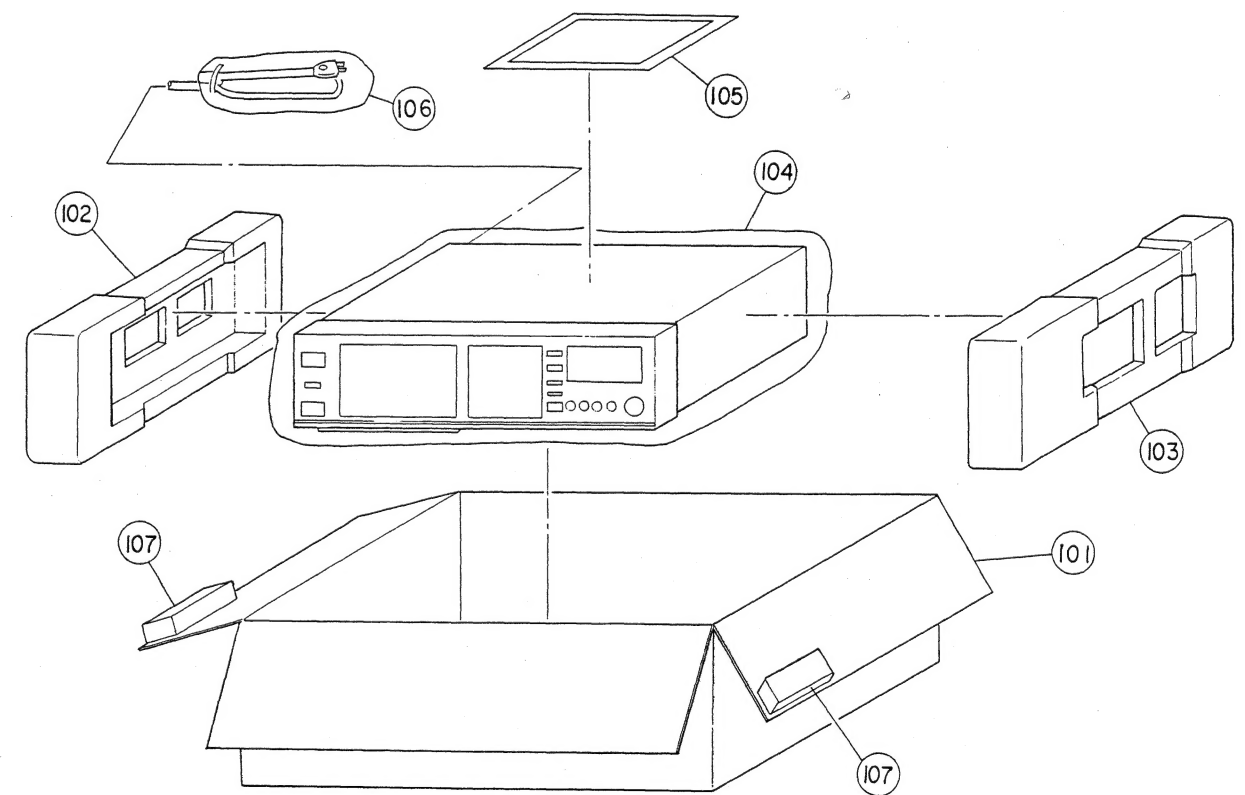


Packing Assembly Parts List

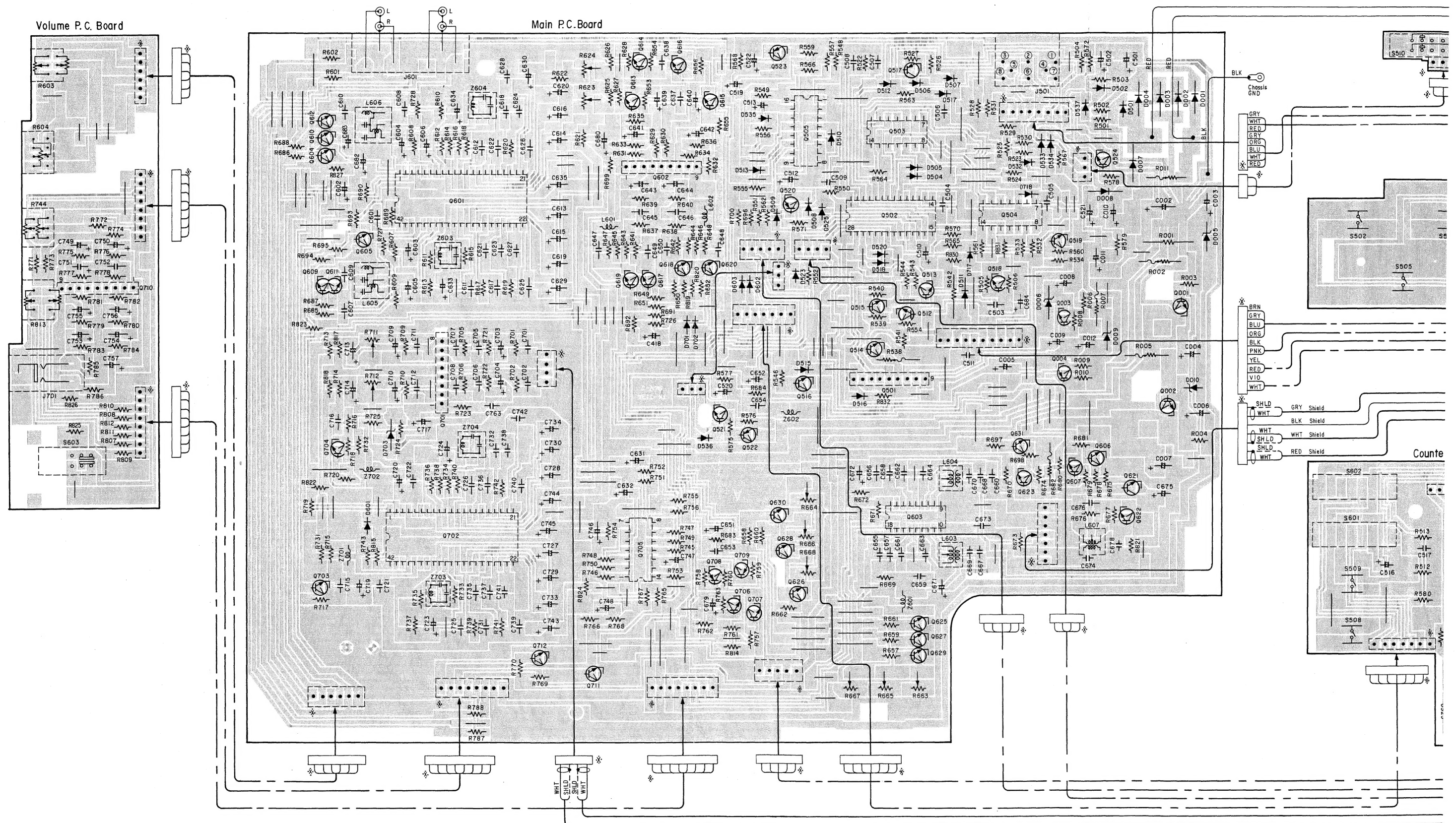
Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	92929660	Box-Primary	▲ 105-5	92906881	Warranty-Card
102	92939845	Tray Packing (L)	■ 105-6	92906880	Warranty-Card
103	92939846	Tray Packing (R)	■ 105-7	92906882	Reply-Card
104	92941840	Sack, Polyethylene	■ 106	92941302	Sack, Polyethylene
105	92197073	Plug, US1P-Cord	▲ 106	92941302	Sack, Polyethylene
● 105-1	92176616	Power-Cord	107	92936621	Cushion
● 105-2	92906874	Card-V.D.E.			
● 105-3	92954770	OWNERS-MANUAL			
▲ 105-3	92954770	OWNERS-MANUAL			
■ 105-4	92954780	OWNERS-MANUAL			

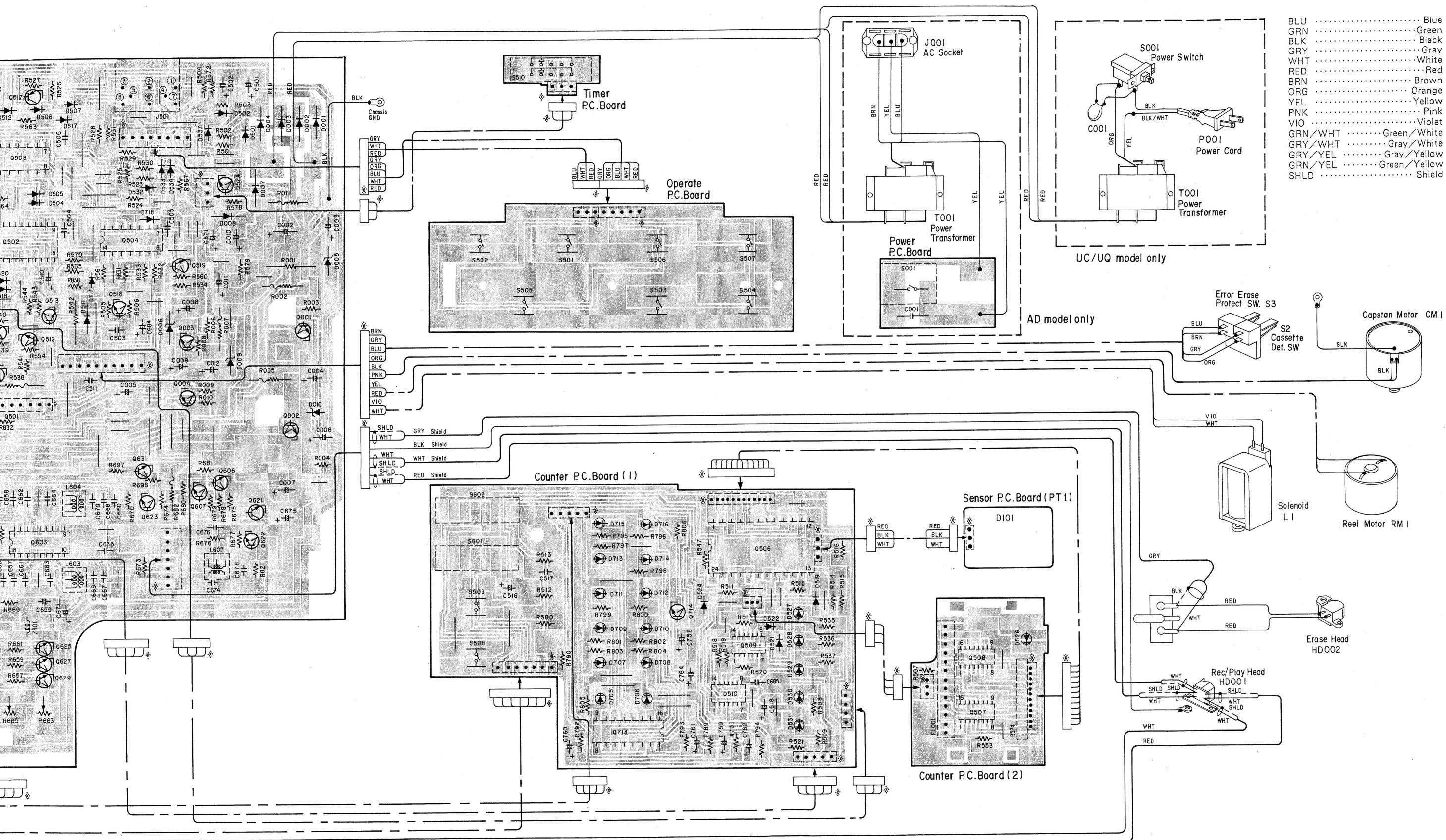
Notes : ● : West German model only (AD), ▲ : Canadian model only (UQ),
 ■ : American model only (UC), Others : Common.

Packing Method View

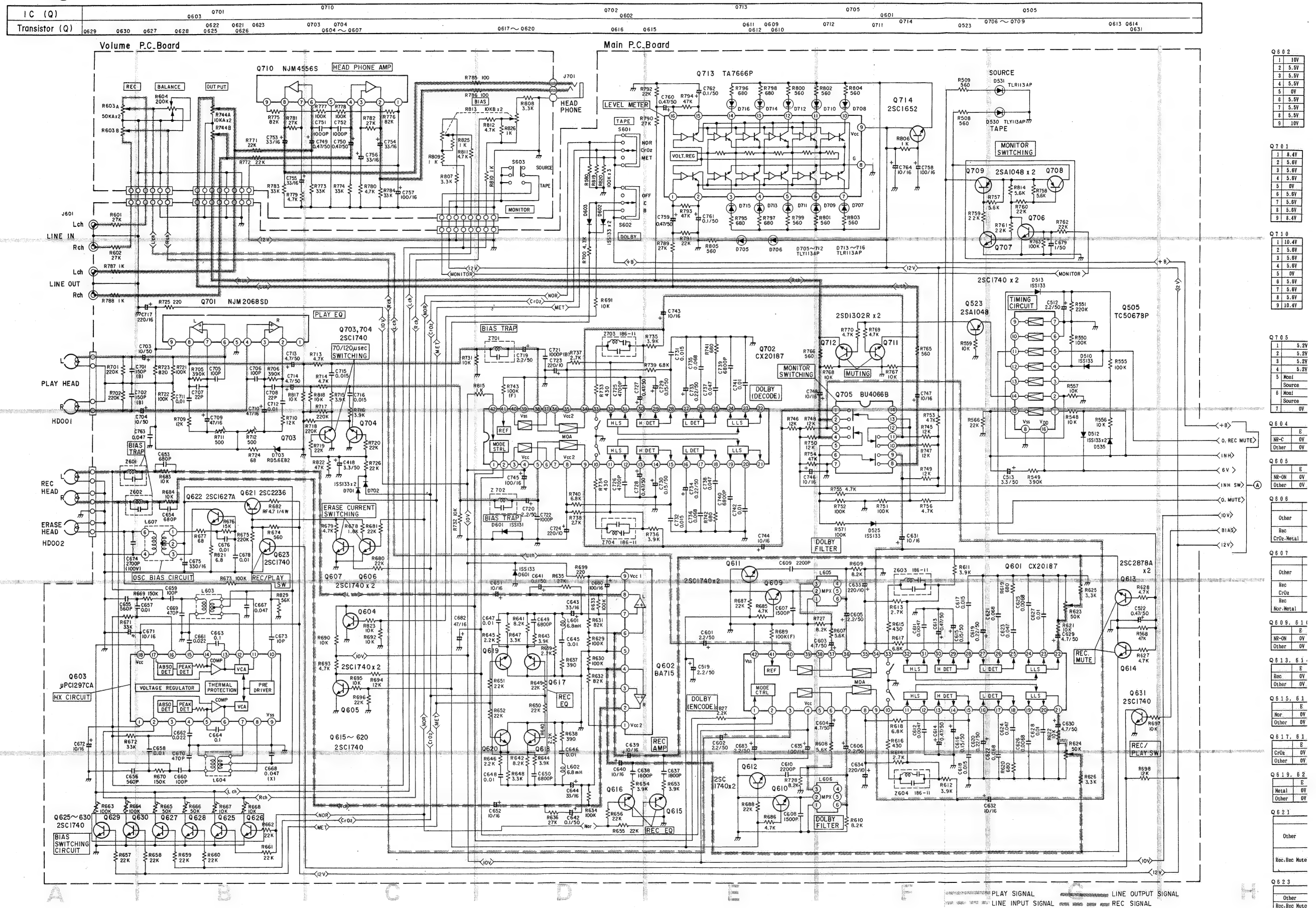


Parts Layout on P.C. Boards and Wiring Diagram

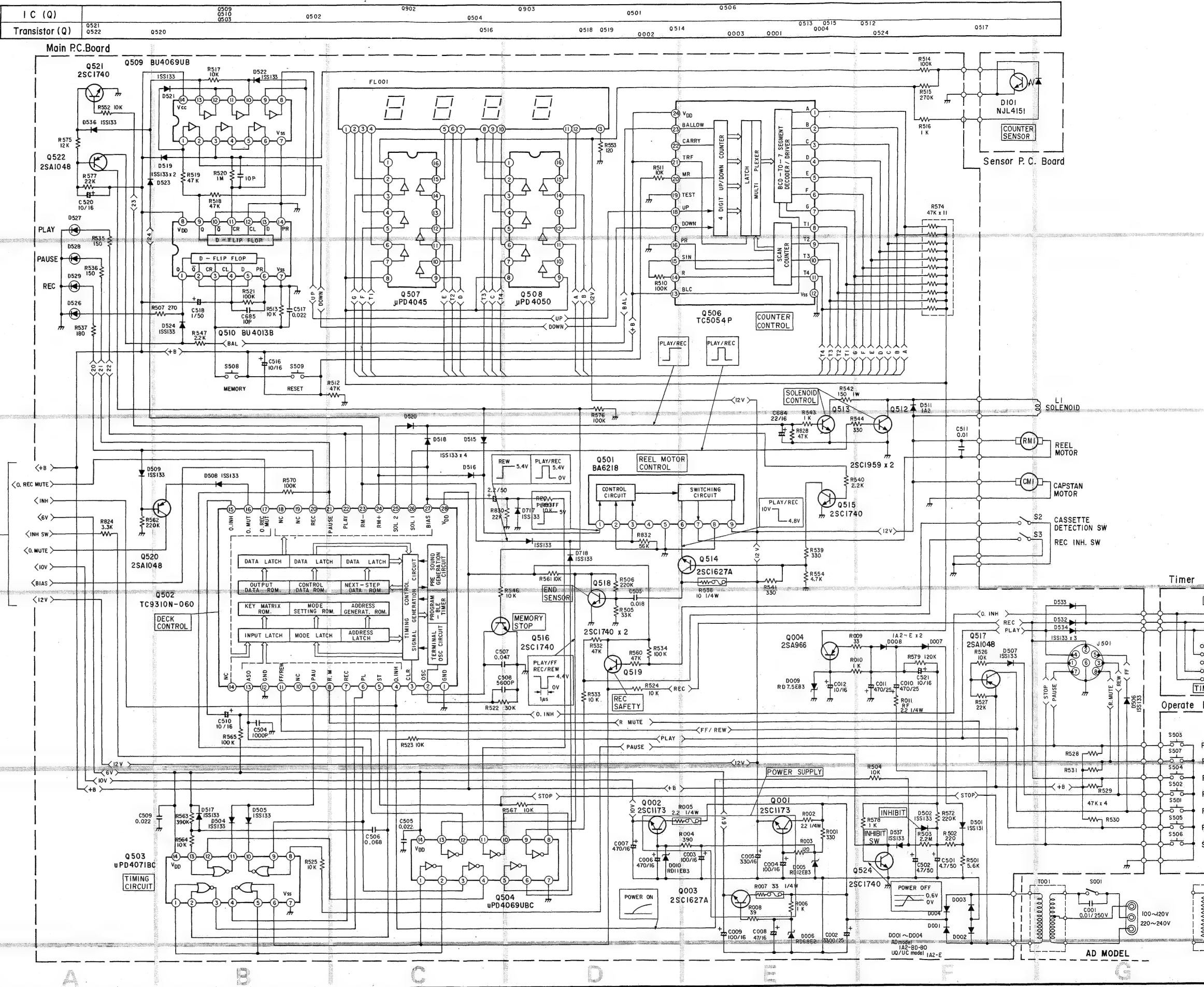




Schematic Diagram (1/2)

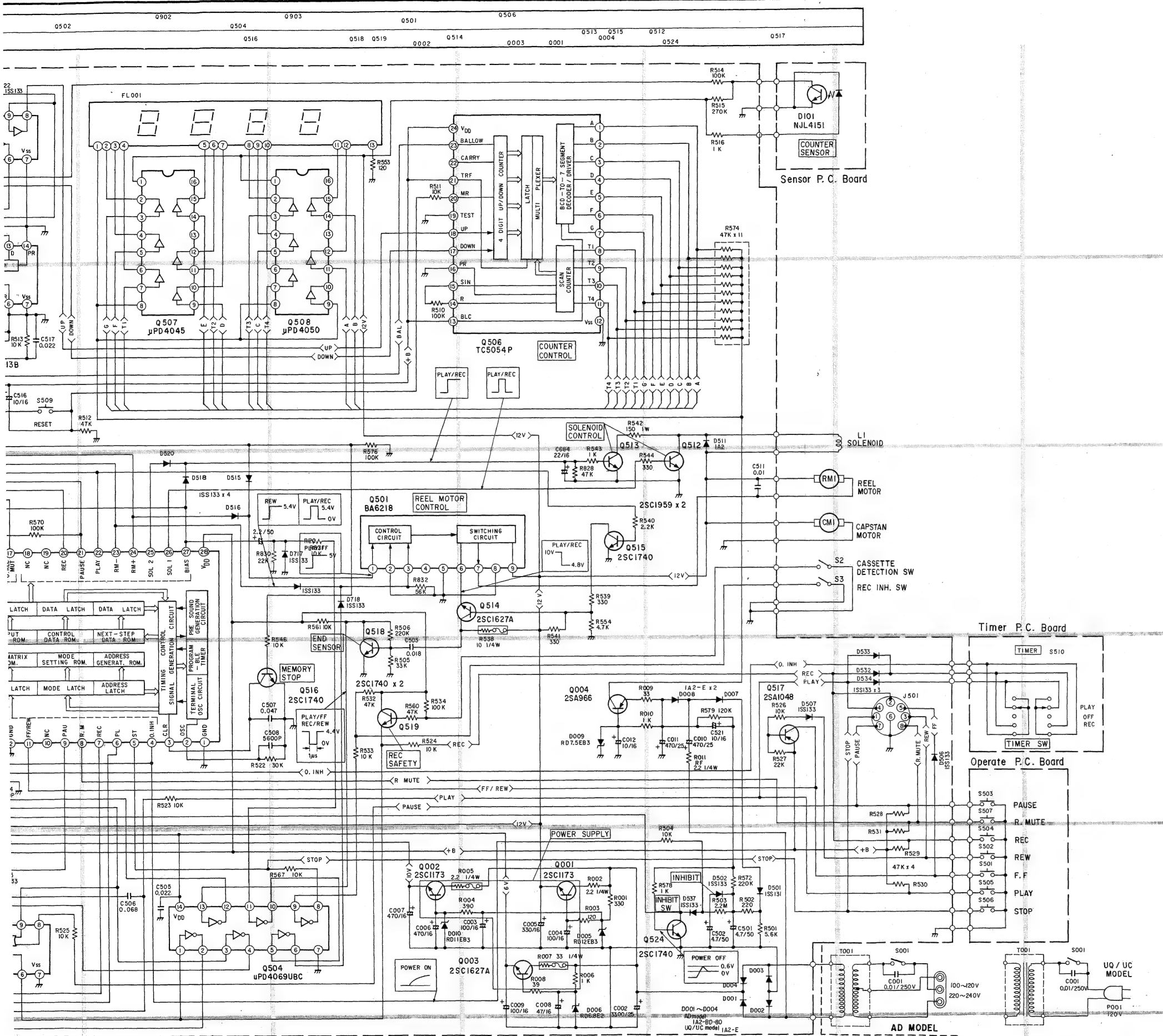


Schematic Diagram (2/2)



- NOTES:
1. All resistance values are in ohms, K = 1,000
 2. All capacitance values are in microfarads, P = 1,000,000

K - 112



Q501

1	Play-Rec.FF	4.9V	Play-Rec	4V
2	0V	7	FF	9.1V
3	Rev	5.4V	Rev	0V
4	Other	0V	Other	0.3V
5	0V	8	0V	
6	Play-Rec	4.8V	Play-Rec.FF	0V
7	FF-Rev	9.9V	Rev	9.2V
8	Other	10.4V	Other	0.3V

Q1

E	C	B
12V	18.6V	12.3V

Q2

E	C	B
10.4V	18.7V	11.1V

Q3

E	C	B
6V	10.4V	6.7V

Q4

E	C	B
-8.9V	-7.5V	-7.4V

Q502

1	0V	16	Play-Rec	5.5V	22	Play-Rec	5.2V
2	3V	17	Other	0V	23	Rev	5.4V
3	6V	18	Rec	5.5V	24	Other	0V
4	5.4V	19	Other	0V	25	Play-Rec.FF	5.5V
5	6V	20	Other	0V	26	Other	0V
6	0V	21	Play-Rec	5.5V	27	Play-Rec	5.5V
7	0V	22	Other	0V	28	Other	0V
8	0V	23	Other	0V			
9	0V	24	Other	0V			
10	0V	25	Other	0V			
11	3.1V	26	Other	0V			
12	0V	27	Pause	5.2V			
13	0V	28	Other	0V			
14	0V						
15	0V						

Q512

E	C	B
Other	0V	11.6V
Play-Rec	0V	8.9V

Q513

E	C	B
Other	0V	11.6V
Play-Rec	0V	0.8V

Q514

E	C	B
Other	10.4V	11.6V
Play-Rec	4.8V	10.7V

Q515

E	C	B
Other	0V	10.8V
Play-Rec	0V	0.8V

Q516

E	C	B
0V	6V	0V

Q517

E	C	B
8V	3V	0V

Q518

E	C	B
0V	4.4V	0.5V

Q519

E	C	B
TAPE	OUT	8V
IN	6V	6.1V

Q521

E	C	B
Rev	0V	0.7V
Other	0V	8.8V

Q522

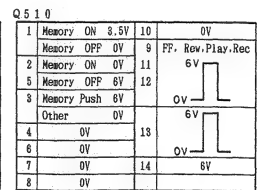
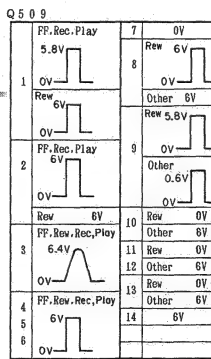
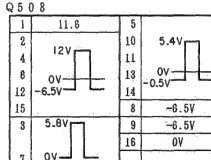
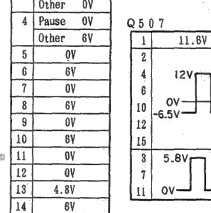
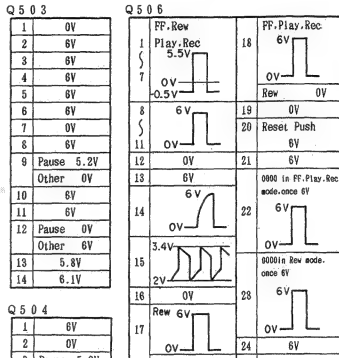
E	C	B
Rev	0V	0V
Other	0V	2.1V

Q523

E	C	B
Other	5.7V	5.7V
Play-Rec.Source	0V	0V

Q524

Power ON Mode	-0.5V
B	-3.6V
Power OFF Mode	0.6V
C	Power ON Mode 5.6V
Power OFF Mode 0V	0V
E	0V



Q520

E	C	B
Rec	5V	5V
Play	5V	4.8V
Source	4.1V	4.1V
Other	0V	0V

Electrical Parts List

Capacitors : UF=microfarads, pF=picofarads

Abbreviations				
RES.=Resistor	CAP.=Capacitor			
C.F.=Carbon Film	ELY.=Electrolytic			
M.F.=Metal Film	CER.=Ceramic			
M.O.=Metal Oxide Film	MYL.=Mylar			
M.P.=Metal Plate	TAN.=Tantalum			
TR.=Transistor	POLY.=Polystyrol			
TRANS.=Transformer	PP.=Polypropylene			
CP.=Chip	PLT.=Polyethylene			
Symbol No.	Part No.	Description		
Volume P. C. Board				
IC/Switch/Jack				
Q710	92117815	IC, NJM4556S		
S603	92190238	Switch-Push		
J701	92198317	Jack, Headphone		
Capacitors				
C749	90418478	ELY., 0.47 μ F/50V		
C750	90418478	ELY., 0.47 μ F/50V		
C751	90343102	CER., 1000pF		
C752	90343102	CER., 1000pF		
C753	90415330	ELY., 33 μ F/16V		
C754	90415330	ELY., 33 μ F/16V		
C755	90415330	ELY., 33 μ F/16V		
C756	90415330	ELY., 33 μ F/16V		
C757	90415101	ELY., 100 μ F/16V		
Resistors (All resistors are Carbon 1/6W \pm 5% unless otherwise noted.)				
R603	92614204	Variable, 50k ohm (Rec-Level)		
R604	92618003	Variable, 200k ohm (Rec-Balance)		
R744	92611011	Variable, 10k ohm (Output)		
R771	90512223	22k ohm		
R772	90512223	22k ohm		
R773	90512333	33k ohm		
R774	90512333	33k ohm		
R775	90512823	82k ohm		
R776	90512823	82k ohm		
R777	90512104	100k ohm		
R778	90512104	100k ohm		
R779	90512472	4.7k ohm		
R780	90512472	4.7k ohm		
R781	90512273	27k ohm		
R782	90512273	27k ohm		
Symbol No.	Part No.	Description		
R783	90512333	33k ohm		
R784	90512333	33k ohm		
R785	90512101	100 ohm		
R786	90512101	100 ohm		
R807	90512332	3.3k ohm		
R808	90512332	3.3k ohm		
R809	90512102	1k ohm		
R810	90512102	1k ohm		
R811	90512472	4.7k ohm		
R812	90512472	4.7k ohm		
R813	92612016	Variable, 10k ohm (Bias Fine)		
R825	90512102	1k ohm		
R826	90512102	1k ohm		
Counter P. C. Board (1)				
IC's/Transistors				
Q506	80480540	IC, TC5054P		
Q509	92128049	IC, BU4069UBF		
Q510	92128048	IC, BU4013BF		
Q713	40356660	IC, TA7666P		
Q714	92128057	2SC1652-R		
Diodes/LED's				
D519	92119073	1SS133		
D521	92119073	1SS133		
D522	92119073	1SS133		
D524	92119073	1SS133		
D527	A8605695	LED, TLG113AP		
D528	38607985	LED, TLY113AP		
D529	A8600645	LED, TLR113AP		
D530	38607985	LED, TLY113AP		
D531	A8600645	LED, TLR113AP		
D705	38607985	LED, TLY113AP		
D706	38607985	LED, TLY113AP		
D707	38607985	LED, TLY113AP		
D708	38607985	LED, TLY113AP		
D709	38607985	LED, TLY113AP		
D710	38607985	LED, TLY113AP		
D711	38607985	LED, TLY113AP		
D712	38607985	LED, TLY113AP		
D713	A8600645	LED, TLR113AP		
D714	A8600645	LED, TLR113AP		
D715	A8600645	LED, TLR113AP		
D716	A8600645	LED, TLR113AP		

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Switches					R795	90512681	680 ohm		
S508	92196492	Tact			R796	90512681	680 ohm		
S509	92196492	Tact			R797	90512681	680 ohm		
S601	92190237	Slide			R798	90512681	680 ohm		
S602	92190237	Slide			R799	90512561	560 ohm		
Capacitors					R800	90512561	560 ohm		
C516	90415100	ELY., 10 μ F/16V			R801	90512561	560 ohm		
C517	90351223	Axial CER., 0.022 μ F			R802	90512561	560 ohm		
C518	90418109	ELY., 1 μ F/50V			R803	90512561	560 ohm		
C685	90311100	CER., 10pF			R804	90512561	560 ohm		
C758	90415101	ELY., 100 μ F/16V			R805	90512561	560 ohm		
C759	90418108	ELY., 0.1 μ F/50V			R806	90512102	1k ohm		
C760	90418108	ELY., 0.1 μ F/50V			Operate P. C. Board				
C761	90418479	ELY., 4.7 μ F/50V			Switches				
C762	90418479	ELY., 4.7 μ F/50V			S501	92196961	Tact, (F.F)		
C764	90415100	ELY., 10 μ F/16V			S502	92196961	Tact, (REW)		
Resistors (All resistors are Carbon 1/6W \pm 5% unless otherwise noted.)					S503	92196961	Tact, (PAUSE)		
R508	90512561	560 ohm			S504	92196961	Tact, (REC)		
R509	90512561	560 ohm			S505	92196961	Tact, (PLAY)		
R510	90512104	100k ohm			S506	92196961	Tact, (STOP)		
R511	90512103	10k ohm			S507	92196961	Tact, (R.MUTE)		
R512	90512473	47k ohm			Counter P. C. Board (2)				
R513	90512103	10k ohm			IC's/LED/FL Tube/Resistors				
R514	90512104	100k ohm			Q507	92128054	IC, μ PD4050BG		
R515	90512274	270k ohm			Q508	92128054	IC, μ PD4050BG		
R516	90512102	1k ohm			D526	A8600645	LED, TLR113AP		
R517	90512103	10k ohm			FL001	92104677	FL Tube		
R518	90512473	47k ohm			R507	90512271	270 ohm		
R519	90512473	47k ohm			R553	90512121	120 ohm		
R520	90512105	1M ohm			R574	92134182	Network, 47k ohm \times 11		
R521	90512104	100k ohm			Power P. C. Board				
R535	90512151	150 ohm			Switch/Capacitor				
R536	90512151	150 ohm			S001	92196751	Switch (Power)		
R537	90512181	180 ohm			C001	92340228	0.01 μ F/250V		
R547	90512222	2.2k ohm							
R580	90512104	100k ohm							
R789	90512273	27k ohm							
R790	90512273	27k ohm							
R791	90512223	22k ohm							
R792	90512223	22k ohm							
R793	90512473	47k ohm							
R794	90512473	47k ohm							

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Main P. C. Board					Q626	92117428	2SC1740-S		
IC's/Transistors					Q627	92117428	2SC1740-S		
Q001	36771650	2SC1173-Y.X.JA			Q628	92117428	2SC1740-S		
Q002	36771650	2SC1173-Y.X.JA			Q629	92117428	2SC1740-S		
Q003	36314470	2SC1627A-Y			Q630	92117428	2SC1740-S		
Q004	36533247	2SA966-Y (C)			Q631	92117428	2SC1740-S		
Q501	92128052	IC, BA6218			Q701	92117845	IC, NJM2068SD		
Q502	40413159	IC, TC9310N-060			Q702	92117814	IC, CX20187		
Q503	92117298	IC, UPD4071BC			Q703	92117428	2SC1740-S		
Q504	92117467	IC, UPD4069UBC			Q704	92117428	2SC1740-S		
Q505	40480672	IC, TC5067BP			Q705	92128050	IC, BU4066B		
Q512	36319300	2SC1959NEW-Y			Q706	92117428	2SC1740-S		
Q513	36319300	2SC1959NEW-Y			Q707	92117428	2SC1740-S		
Q514	36314470	2SC1627A-Y			Q708	36534440	2SA1048GR		
Q515	92117428	2SC1740-S			Q709	36534440	2SA1048GR		
Q516	92117428	2SC1740-S			Q711	92117150	2SD1302-S		
Q517	36534440	2SA1048GR			Q712	92117150	2SD1302-S		
Q518	92117428	2SC1740-S			Diodes				
Q519	92117428	2SC1740-S			● D001	92119353	1A2-BD-80		
Q520	36534440	2SA1048GR			■ D001	92119310	1A2-E		
Q521	92117428	2SC1740-S			▲ D001	92119310	1A2-E		
Q522	36534440	2SA1048GR			● D002	92119353	1A2-BD-80		
Q523	36534440	2SA1048GR			■ D002	92119310	1A2-E		
Q524	92117428	2SC1740-S			▲ D002	92119310	1A2-E		
Q601	92117814	IC, CX20187			● D003	92119353	1A2-BD-80		
Q602	92128051	IC, BA715			■ D003	92119310	1A2-E		
Q603	92128053	IC, UPC1297CA			▲ D003	92119310	1A2-E		
Q604	92117428	2SC1740-S			● D004	92119353	1A2-BD-80		
Q605	92117428	2SC1740-S			■ D004	92119310	1A2-E		
Q606	92117428	2SC1740-S			▲ D004	92119310	1A2-E		
Q607	92117428	2SC1740-S			D005	92115538	Zener, RD12E-B3		
Q609	92117428	2SC1740-S			D006	92119066	Zener, RD6.8E-B2		
Q610	92117428	2SC1740-S			D007	92119310	1A2-E		
Q611	92117428	2SC1740-S			D008	92119310	1A2-E		
Q612	92117428	2SC1740-S			D009	92115922	Zener, RD7.5E-B3		
Q613	36342200	2SC2878-A			D010	92115970	Zener, RD11E-B3		
Q614	36342200	2SC2878-A			D501	92119223	1SS131		
Q615	92117428	2SC1740-S			D502	92119073	1SS133		
Q616	92117428	2SC1740-S			D504	92119073	1SS133		
Q617	92117428	2SC1740-S			D505	92119073	1SS133		
Q618	92117428	2SC1740-S			D506	92119073	1SS133		
Q619	92117428	2SC1740-S			D507	92119073	1SS133		
Q620	92117428	2SC1740-S			D508	92119073	1SS133		
Q621	36325549	2SC2236-Y (C)			D509	92119073	1SS133		
Q622	36314470	2SC1627A-Y			D510	92119073	1SS133		
Q623	92117428	2SC1740-S			D511	92119310	1A2-E		
Q625	92117428	2SC1740-S			D512	92119073	1SS133		
					D513	92119073	1SS133		

Notes : ● : West German model only (AD), ▲ : Canadian model only (UQ),
 ■ : American model only (UC), Others : Common.

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
D515	92119073	1SS133			Capacitors				
D516	92119073	1SS133			C002	90416332	ELY., 3300 μ F/25V		
D517	92119073	1SS133			C003	90415101	ELY., 100 μ F/16V		
D518	92119073	1SS133			C004	90415101	ELY., 100 μ F/16V		
D520	92119073	1SS133			C005	90415331	ELY., 330 μ F/16V		
D523	92119073	1SS133			C006	90415471	ELY., 470 μ F/16V		
D525	92119073	1SS133			C007	90415471	ELY., 470 μ F/16V		
D532	92119073	1SS133			C008	90415470	ELY., 47 μ F/16V		
D533	92119073	1SS133			C009	90415101	ELY., 100 μ F/16V		
D534	92119073	1SS133			C010	90416471	ELY., 470 μ F/25V		
D535	92119073	1SS133			C011	90416471	ELY., 470 μ F/25V		
D536	92119073	1SS133			C012	90415100	ELY., 10 μ F/16V		
D537	92119073	1SS133			C418	90418339	ELY., 3.3 μ F/50V		
D601	92119073	1SS133			C501	90418479	ELY., 4.7 μ F/50V		
D602	92119073	1SS133			C502	90418479	ELY., 4.7 μ F/50V		
D603	92119073	1SS133			C503	90318183	CER., 0.018 μ F		
D701	92119073	1SS133			C504	90343102	CER., 0.001 μ F		
D702	92119073	1SS133			C505	90351223	Axial CER., 0.022 μ F		
D703	92115937	Zener, RD5.6E-B2			C506	90341683	CER., 0.068 μ F		
D717	92119073	1SS133			C507	90318473	CER., 0.047 μ F		
D718	92119073	1SS133			C508	90371562	Polyester Film, 5600pF		
☆	92119073	1SS133			C509	90351223	Axial CER., 0.022 μ F		
Coils					C510	90415100	ELY., 10 μ F/16V		
L601	92232277	Choke, 6.8mH			C511	90353103	Axial CER., 0.01 μ F		
L602	92232277	Choke, 6.8mH			C512	90418229	ELY., 2.2 μ F/50V		
L603	92215149	HX PRO			C513	90418339	ELY., 3.3 μ F/50V		
L604	92215149	HX PRO			C519	90418229	ELY., 2.2 μ F/50V		
L605	92135094	Filter, MPX			C520	90415100	ELY., 10 μ F/16V		
L606	92135094	Filter, MPX			C521	90415100	ELY., 10 μ F/16V		
L607	92215148	OSC			C522	90418478	ELY., 0.47 μ F/50V		
Switch/Jacks					C601	90418229	ELY., 2.2 μ F/50V		
S510	92190237	Switch-Slide			C602	90418229	ELY., 2.2 μ F/50V		
J501	92169094	Jack-Cont			C603	90418479	ELY., 4.7 μ F/50V		
J601	92198282	Jack, US 4P			C604	90418479	ELY., 4.7 μ F/50V		
Filters					C605	90418229	ELY., 2.2 μ F/50V		
Z601	92135092	Bias			C606	90418229	ELY., 2.2 μ F/50V		
Z602	92135092	Bias			C607	90371152	Polyester Film, 1500pF		
Z603	92135065	Coil, Skewing			C608	90371152	Polyester Film, 1500pF		
Z604	92135065	Coil, Skewing			C609	90371222	Polyester Film, 2200pF		
Z701	92135093	Bias			C610	90371222	Polyester Film, 2200pF		
Z702	92135093	Bias			C611	90371472	Polyester Film, 4700pF		
Z703	92135065	Coil, Skewing			C612	90371472	Polyester Film, 4700pF		
Z704	92135065	Coil, Skewing			C613	90418478	ELY., 0.47 μ F/50V		
					C614	90418478	ELY., 0.47 μ F/50V		
					C615	92488158	ELY., 0.15 μ F/50V		
					C616	92488158	ELY., 0.15 μ F/50V		

NOTE: ☆: This part is added to be mounted on the bottom side of P. C. Boards.

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
C617	90371153	Polyester Film, 0.015 μ F			C653	90343681	CER., 680pF		
C618	90371153	Polyester Film, 0.015 μ F			C654	90343681	CER., 680pF		
C619	90418228	ELY., 0.22 μ F/50V			C655	90343561	CER., 560pF		
C620	90418228	ELY., 0.22 μ F/50V			C656	90343561	CER., 560pF		
C621	90371683	Polyester Film, 0.068 μ F			C657	90353103	Axial CER., 0.01 μ F		
C622	90371683	Polyester Film, 0.068 μ F			C658	90353103	Axial CER., 0.01 μ F		
C623	90371473	Polyester Film, 0.047 μ F			C659	90343101	CER., 100pF		
C624	90371473	Polyester Film, 0.047 μ F			C660	90343101	CER., 100pF		
C625	90371682	Polyester Film, 6800pF			C661	90351223	Axial CER., 0.022 μ F		
C626	90371682	Polyester Film, 6800pF			C662	90351223	Axial CER., 0.022 μ F		
C627	90371103	Polyester Film, 0.01 μ F			C663	90318104	CER., 0.1 μ F		
C628	90371103	Polyester Film, 0.01 μ F			C664	90318104	CER., 0.1 μ F		
C629	90418479	ELY., 4.7 μ F/50V			C667	90318473	CER., 0.047 μ F		
C630	90418479	ELY., 4.7 μ F/50V			C668	90318473	CER., 0.047 μ F		
C631	90415100	ELY., 10 μ F/16V			C669	90343471	CER., 470pF		
C632	90415100	ELY., 10 μ F/16V			C670	90343471	CER., 470pF		
C633	90414221	ELY., 220 μ F/10V			C671	90415100	ELY., 10 μ F/16V		
C634	90414221	ELY., 220 μ F/10V			C672	90415100	ELY., 10 μ F/16V		
C635	90415101	ELY., 100 μ F/16V			C673	90311100	CER., 10pF		
C637	90371182	Polyester Film, 1800pF			C674	92321224	PP., 2700pF/100V		
C638	90371182	Polyester Film, 1800pF			C675	90415331	ELY., 330 μ F/16V		
C639	90415100	ELY., 10 μ F/16V			C676	90371103	Polyester Film, 0.01 μ F		
C640	90415100	ELY., 10 μ F/16V			C678	90371103	Polyester Film, 0.01 μ F		
C641	90418108	ELY., 0.1 μ F/50V			C679	90418109	ELY., 1 μ F/50V		
C642	90418108	ELY., 0.1 μ F/50V			C680	90415101	ELY., 100 μ F/16V		
C643	90415330	ELY., 33 μ F/16V			C682	90415470	ELY., 47 μ F/16V		
C644	90415330	ELY., 33 μ F/16V			C683	90418229	ELY., 2.2 μ F/50V		
C645	90371103	Polyester Film, 0.01 μ F			C684	90415220	ELY., 22 μ F/16V		
C646	90371103	Polyester Film, 0.01 μ F			C701	90343151	CER., 150pF		
C647	90371103	Polyester Film, 0.01 μ F			C702	90343151	CER., 150pF		
C648	90371103	Polyester Film, 0.01 μ F			C703	92440325	ELY., 10 μ F/16V		
C649	90371682	Polyester Film, 6800pF			C704	92440325	ELY., 10 μ F/16V		
C650	90371682	Polyester Film, 6800pF			C705	90343101	CER., 100pF		
C651	90415100	ELY., 10 μ F/16V			C706	90343101	CER., 100pF		
C652	90415100	ELY., 10 μ F/16V			C707	90311220	CER., 22pF		
					C708	90311220	CER., 22pF		
					C709	90415470	ELY., 47 μ F/16V		
					C710	90415470	ELY., 47 μ F/16V		
					C711	90371103	Polyester Film, 0.01 μ F		
					C712	90371103	Polyester Film, 0.01 μ F		
					C713	90418479	ELY., 4.7 μ F/50V		
					C714	90418479	ELY., 4.7 μ F/50V		
					C715	90371153	Polyester Film, 0.015 μ F		
					C716	90371153	Polyester Film, 0.015 μ F		
					C717	90415221	ELY., 220 μ F/16V		

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
C719	90418229	ELY., 2.2 μ F/50V			Resistors (All resistors are Carbon 1/6W \pm 5% unless otherwise noted.)				
C720	90418229	ELY., 2.2 μ F/50V			R001	90516331	330 ohm 1/2W		
C721	90343102	CER., 1000pF			R002	90531229	Carbon Fuse, 2.2 ohm 1/4W		
C722	90343102	CER., 1000pF			R003	90512121	120 ohm		
C723	90414221	ELY., 220 μ F/10V			R004	90512391	390 ohm		
C724	90414221	ELY., 220 μ F/10V			R005	90531229	Carbon Fuse, 2.2 ohm 1/4W		
C725	90371472	Polyester Film, 4700pF			R006	90512102	1k ohm		
C726	90371472	Polyester Film, 4700pF			R007	90531330	Carbon Fuse, 33 ohm 1/4W		
C727	90418478	ELY., 0.47 μ F/50V			R008	90512390	39 ohm		
C728	90418478	ELY., 0.47 μ F/50V			R009	90512330	33 ohm		
C729	92488158	ELY., 0.15 μ F/50V			R010	90512102	1k ohm		
C730	92488158	ELY., 0.15 μ F/50V			R011	90531229	Carbon Fuse, 2.2 ohm 1/4W		
C731	90371153	Polyester Film, 0.015 μ F			R501	90512562	5.6k ohm		
C732	90371153	Polyester Film, 0.015 μ F			R502	90512221	220 ohm		
C733	90418228	ELY., 0.22 μ F/50V			R503	90512225	2.2M ohm		
C734	90418228	ELY., 0.22 μ F/50V			R504	90512103	10k ohm		
C735	90371683	Polyester Film, 0.068 μ F			R505	90512333	33k ohm		
C736	90371683	Polyester Film, 0.068 μ F			R506	90512224	220k ohm		
C737	90371473	Polyester Film, 0.047 μ F			R522	92550497	30k ohm 1/4W (\pm 2%)		
C738	90371473	Polyester Film, 0.047 μ F			R523	90512103	10k ohm		
C739	90371682	Polyester Film, 6800pF			R524	90512103	10k ohm		
C740	90371682	Polyester Film, 6800pF			R525	90512103	10k ohm		
C741	90371103	Polyester Film, 0.01 μ F			R526	90512103	10k ohm		
C742	90371103	Polyester Film, 0.01 μ F			R527	90512223	22k ohm		
C743	90415100	ELY., 10 μ F/16V			R528	90512473	47k ohm		
C744	90415100	ELY., 10 μ F/16V			R529	90512473	47k ohm		
C745	90415101	ELY., 100 μ F/16V			R530	90512473	47k ohm		
C746	90415100	ELY., 10 μ F/16V			R531	90512473	47k ohm		
C747	90415100	ELY., 10 μ F/16V			R532	90512473	47k ohm		
C748	90415100	ELY., 10 μ F/16V			R533	90512103	10k ohm		
C763	90318473	CER., 0.047 μ F			R534	90512104	100k ohm		
☆	90418229	ELY., 2.2 μ F/50V			R538	90531100	Carbon Fuse, 10 ohm 1/4W		
					R539	90512331	330 ohm		
					R540	90512222	2.2k ohm		
					R541	90512331	330 ohm		
					R542	92571151	150 ohm 1W		
					R543	90512102	1k ohm		
					R544	90512331	330 ohm		
					R546	90512103	10k ohm		
					R548	90512103	10k ohm		
					R549	90512394	390k ohm		
					R550	90512104	100k ohm		
					R551	90512224	220k ohm		
					R552	90512103	10k ohm		
					R554	90512472	4.7k ohm		
					R555	90512104	100k ohm		

NOTE: ☆: This part is added to be mounted on the bottom side of P. C. Boards.

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
R556	90512103	10k ohm			R635	90512273	27k ohm		
R557	90512103	10k ohm			R636	90512273	27k ohm		
R559	90512103	10k ohm			R637	90512391	390 ohm		
R560	90512473	47k ohm			R638	90512391	390 ohm		
R561	90512103	10k ohm			R639	90512222	2.2k ohm		
R562	90512224	220k ohm			R640	90512222	2.2k ohm		
R563	90512394	390k ohm			R641	90512822	8.2k ohm		
R564	90512103	10k ohm			R642	90512822	8.2k ohm		
R565	90512104	100k ohm			R643	90512392	3.9k ohm		
R566	90512223	22k ohm			R644	90512392	3.9k ohm		
R567	90512103	10k ohm			R645	90512222	2.2k ohm		
R568	90512473	47k ohm			R646	90512222	2.2k ohm		
R570	90512104	100k ohm			R647	90512332	3.3k ohm		
R571	90512104	100k ohm			R648	90512332	3.3k ohm		
R572	90512224	220k ohm			R649	90512223	22k ohm		
R575	90512123	12k ohm			R650	90512223	22k ohm		
R576	90512104	100k ohm			R651	90512223	22k ohm		
R577	90512223	22k ohm			R652	90512223	22k ohm		
R578	90512102	1k ohm			R653	90512393	39k ohm		
R579	90512124	120k ohm			R654	90512393	39k ohm		
R601	90512273	27k ohm			R655	90512223	22k ohm		
R602	90512273	27k ohm			R656	90512223	22k ohm		
R607	90512562	5.6k ohm			R657	90512223	22k ohm		
R608	90512562	5.6k ohm			R658	90512223	22k ohm		
R609	90512822	8.2k ohm			R659	90512223	22k ohm		
R610	90512822	8.2k ohm			R660	90512223	22k ohm		
R611	90512392	3.9k ohm			R661	90512223	22k ohm		
R612	90512392	3.9k ohm			R662	90512223	22k ohm		
R613	90512272	2.7k ohm			R663	92658947	Semi-Variable, 100k ohm		
R614	90512272	2.7k ohm			R664	92658947	Semi-Variable, 100k ohm		
R615	90512431	430 ohm			R665	92658946	Semi-Variable, 50k ohm		
R616	90512431	430 ohm			R666	92658946	Semi-Variable, 50k ohm		
R617	90512682	6.8k ohm			R667	92658944	Semi-Variable, 10k ohm		
R618	90512682	6.8k ohm			R668	92658944	Semi-Variable, 10k ohm		
R619	90512681	680 ohm			R669	90512154	150k ohm		
R620	90512681	680 ohm			R670	90512154	150k ohm		
R621	90512103	10k ohm			R671	90512333	33k ohm		
R622	90512103	10k ohm			R672	90512333	33k ohm		
R623	92658946	Semi-Variable, 50k ohm			R673	90512104	100k ohm		
R624	92658946	Semi-Variable, 50k ohm			R674	90512561	560 ohm		
R625	90512332	3.3k ohm			R675	90512224	220k ohm		
R626	90512332	3.3k ohm			R676	90512153	15k ohm		
R627	90512472	4.7k ohm			R677	90512680	68 ohm		
R628	90512472	4.7k ohm			R678	90512182	1.8k ohm		
R629	90512104	100k ohm			R679	90512472	4.7k ohm		
R630	90512104	100k ohm							
R631	90512823	82k ohm							
R632	90512823	82k ohm							
R633	90512104	100k ohm							
R634	90512104	100k ohm							

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
R680	90512223	22k ohm			R736	90512392	3.9k ohm		
R681	90512223	22k ohm			R737	90512272	2.7k ohm		
R682	92500468	Carbon Fuse, 4.7 ohm 1/4W			R738	90512272	2.7k ohm		
R683	90512103	10k ohm			R739	90512682	6.8k ohm		
R684	90512103	10k ohm			R740	90512682	6.8k ohm		
R685	90512472	4.7k ohm			R741	90512681	680 ohm		
R686	90512472	4.7k ohm			R742	90512681	680 ohm		
R687	90512223	22k ohm			R743	92570777	100k ohm 1/4W		
R688	90512223	22k ohm			R745	90512123	12k ohm		
R689	92570777	100k ohm 1/4W			R746	90512123	12k ohm		
R690	90512103	10k ohm			R747	90512123	12k ohm		
R691	90512103	10k ohm			R748	90512123	12k ohm		
R692	90512103	10k ohm			R749	90512123	12k ohm		
R693	90512472	4.7k ohm			R750	90512123	12k ohm		
R694	90512123	12k ohm			R751	90512104	100k ohm		
R695	90512103	10k ohm			R752	90512104	100k ohm		
R696	90512223	22k ohm			R753	90512473	47k ohm		
R697	90512103	10k ohm			R754	90512473	47k ohm		
R698	90512123	12k ohm			R755	90512472	4.7k ohm		
R699	90512221	220 ohm			R756	90512472	4.7k ohm		
R700	90512472	4.7k ohm			R757	90512562	5.6k ohm		
R701	90512224	220k ohm			R758	90512562	5.6k ohm		
R702	90512224	220k ohm			R759	90512223	22k ohm		
R705	90512394	390k ohm			R760	90512223	22k ohm		
R706	90512394	390k ohm			R761	90512223	22k ohm		
R709	90512123	12k ohm			R762	90512223	22k ohm		
R710	90512123	12k ohm			R763	90512104	100k ohm		
R711	92658940	Semi-Variable, 500 ohm			R765	90512561	560 ohm		
R712	92658940	Semi-Variable, 500 ohm			R766	90512561	560 ohm		
R713	90512472	4.7k ohm			R767	90512103	10k ohm		
R714	90512472	4.7k ohm			R768	90512103	10k ohm		
R715	90512392	3.9k ohm			R769	90512472	4.7k ohm		
R716	90512392	3.9k ohm			R770	90512472	4.7k ohm		
R717	90512224	220k ohm			R787	90512102	1k ohm		
R718	90512224	220k ohm			R788	90512102	1k ohm		
R719	90512223	22k ohm			R814	90512562	5.6k ohm		
R720	90512223	22k ohm			R815	90512102	1k ohm		
R721	90512104	100k ohm			R817	90512103	10k ohm		
R722	90512104	100k ohm			R818	90512103	10k ohm		
R723	90512821	820 ohm			R819	90512104	100k ohm		
R724	90512680	68 ohm			R820	90512104	100k ohm		
R725	90512221	220 ohm			R821	90512689	6.8 ohm		
R726	90512223	22k ohm			R822	90512473	47k ohm		
R727	90512822	8.2k ohm			R823	90512103	10k ohm		
R728	90512822	8.2k ohm			R824	90512332	3.3k ohm		
R731	90512103	10k ohm			R827	90512222	2.2K ohm		
R732	90512103	10k ohm			R829	90512563	56K ohm		
R733	90512431	430 ohm			R830	90512223	22k ohm		
R734	90512431	430 ohm			R831	90512103	10k ohm		
R735	90512392	3.9k ohm			R832	90512563	56k ohm		

Symbol No.	Part No.	Description			Symbol No.	Part No.	Description		
Miscellaneous									
● T001	92224749	Trans-PT							
■ T001	92224748	Trans-PT							
▲ T001	92224748	Trans-PT							
● J001	92169225	Socket-AC-03P							
■ P001	92176756	Cord, Power							
▲ P001	92176756	Cord, Power							
HD001	22217528	Head, Record/ Playback							
HD002	22218255	Head, Evase							
RM1	25791358	Reel Motor Assy.							
CM1	25791796	Capstan Motor Assy.							
PT1	26112144	Sensor P. C. Board Assy.							
L1	22147248	Solenoid							

Notes : ● : West German model only (AD), ▲ : Canadian model only (UQ),
 ■ : American model only (UC), Others : Common.

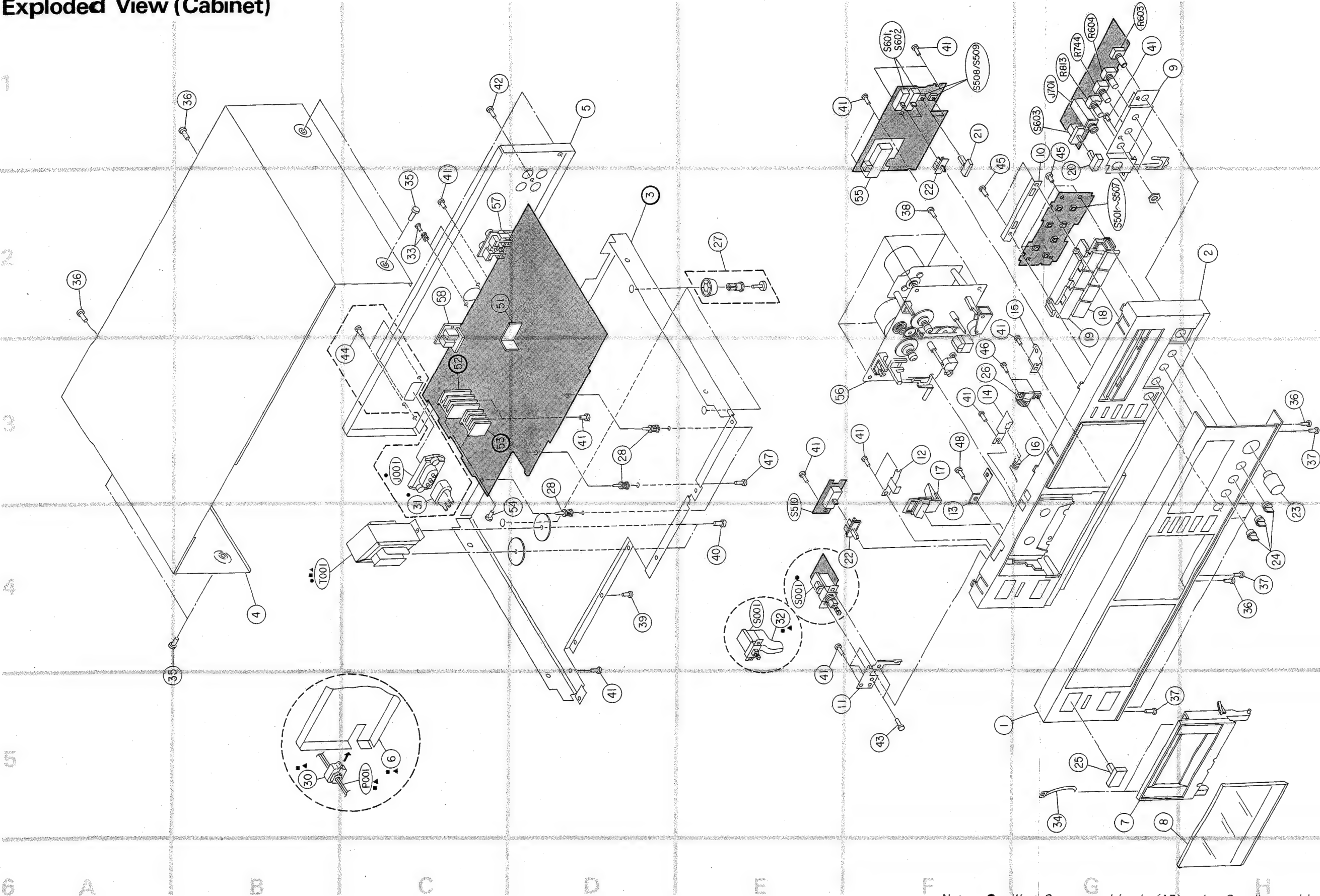
Cabinet Assembly Parts List

NOTE: The parts without part numbers are not supplied.

Symbol No.	Index	Part No.	Description			Symbol No.	Index	Part No.	Description		
●	1	5-F	95812610	Panel-Front			35		92707040	Screw, BID Hd.	
■	2	2-H	95829767	Sub-Panel-Assy.			36		92707911	Screw, BID Hd.	
▲	4	4-B	92882651	Top-Cover						Tapping	
	5	1-D	90826852	Plate-Jack			37		92707942	Screw, BID Hd.	
	6	5-C	90826853	Plate-Jack						Tapping	
	6	5-C	90826853	Plate-Jack			38	2-F	92702202	Screw, BID Hd.	
	7	5-G	95812653	Cassette-Holder-Assy.						Tapping	
	8	5-G	95812613	Cover-Cassette			39	4-D	92708276	Screw, FLT Hd.	
	9	1-G	92755905	Bracket-Volume						Tapping	
	10	1-G	95848644	Stay						3d x 8mm (Black)	
	11	5-E	92755906	Mount-Power			40	4-E	92708047	Screw, BID Hd.	
	12	3-F	92755904	Mount-Eject						Tapping	
	13	4-F	95848645	Stay-C			41		92707842	Screw, BID Hd.	
	14	3-F	95864350	Mount-Cassette-Holder-L						Tapping	
	15	2-F	95864272	Mount-Cassette-Holder-R			42	1-C	92707826	Screw, BID Hd.	
	16	3-G	92776814	Eject-Spring						Tapping	
	17	3-F	95826946	Eject-Knob			43	5-F	92708624	Screw, FLT Hd.	
	18	2-G	95826944	Operation-Knob-Type B						3d x 6mm	
	19	3-G	95826943	Operation-Knob-Type A			44	3-C	92707445	Screw, BID Hd.	
	20	2-G	95826938	Push-Knob						3d x 6mm	
	21	1-F	95826945	Push-Knob			45		92708208	Screw, PAN Hd.	
	22		95826947	Slide-Knob						with Washer	
	23	4-H	95826941	Volume-Knob			46	3-F	92708827	Screw, PAN Hd.	
	24	4-H	90872225	Bias-Volume-Knob						with Washer	
	25	5-G	95826942	Power-Knob			47	3-E	92707910	Screw, BID Hd.	
	26	3-F	95883246	Damper-New						Tapping	
	27	2-E	90842679	Foot			48	3-F	92707979	Screw, BID Hd.	
	28		92755908	P.C.B.-Support						Tapping	
■	30	5-B	95844322	Cord-Bush						2.6d x 8mm	
▲	30	5-B	95844322	Cord-Bush			51	2-C	92747678	Shield-Plate	
●	31	4-C	92184238	Cover-AC-Inlet			54	4-D	92708539	Screw, BID Hd.	
■	32	4-E	92758261	Cover-Sw.						3d x 6mm	
▲	32	4-E	92758261	Cover-Sw.			55	2-F	92755907	F.L.D.-Holder	
	33	2-C	90798758	Special-Rivet			56	3-E	96212300	Mecha-Assy.	
	34	5-G	95779272	Spring-C-Hold			57	2-C	92198282	Jack-US-4P	
							58	2-C	92169094	Jack-D.I.N.-8P	

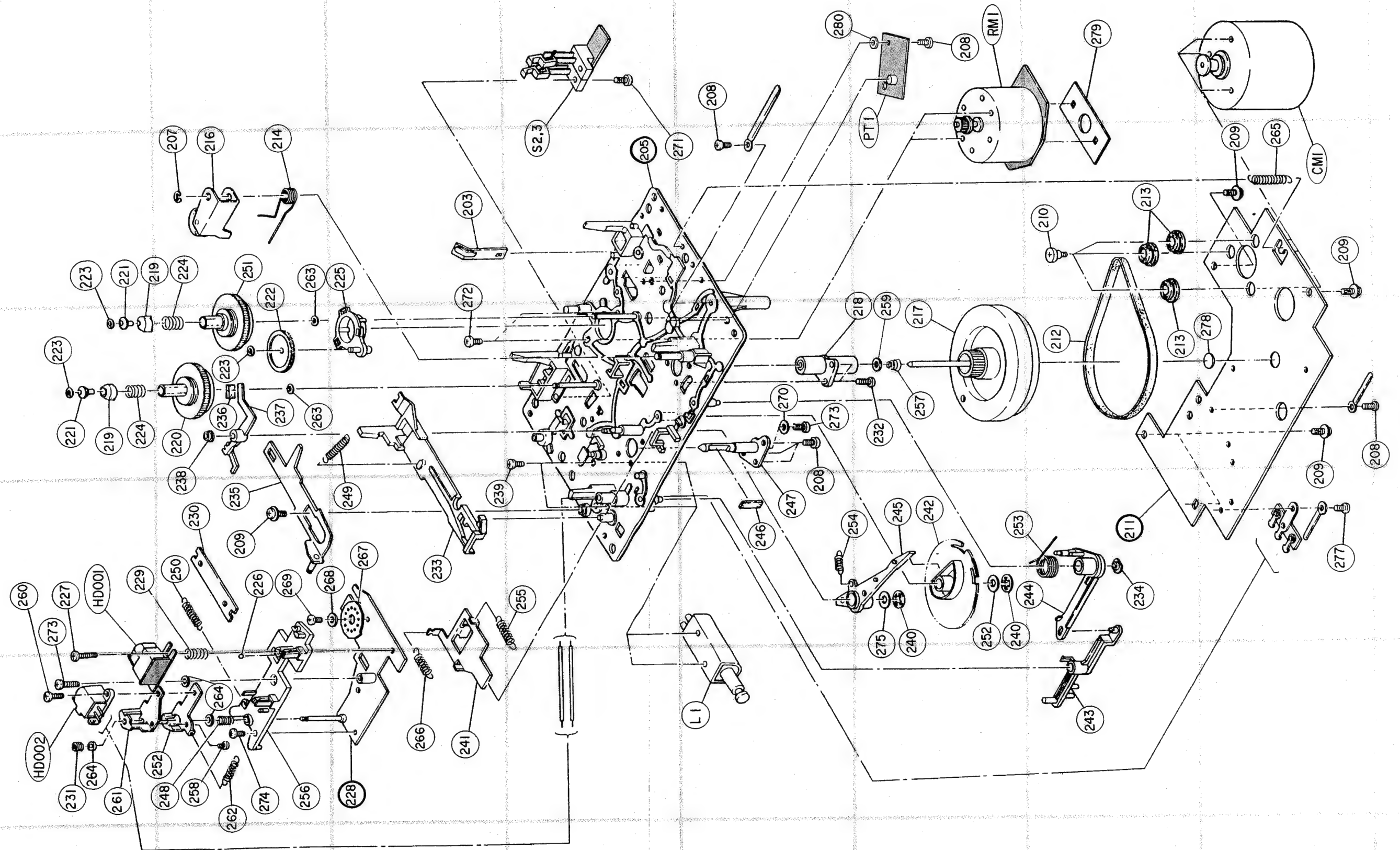
Notes: ●: West German model only (AD), ▲: Canadian model only (UQ),
 ■: American model only (UC), Others: Common.

Exploded View (Cabinet)



Notes : ● : West German model only (AD), ▲ : Canadian model only (UQ),
■ : American model only (UC), Others : Common.

Exploded View (Cassette Deck)



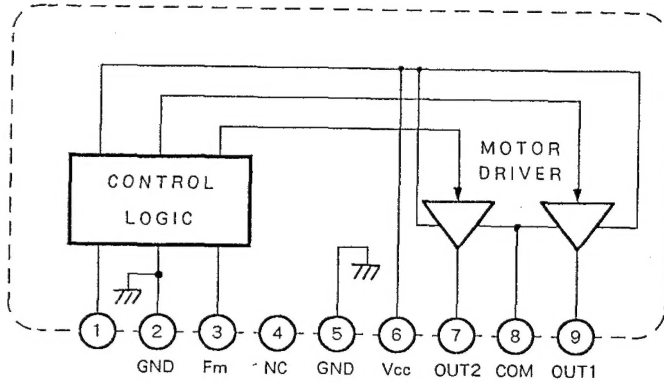
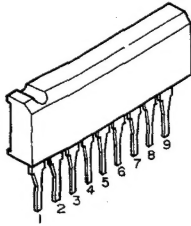
Cassette Deck Assembly Parts List

Symbol No.	Index	Part No.	Description			Symbol No.	Index	Part No.	Description		
203	2-C	25779142	Spring, Holder			244	4-F	25782415	Lock Lever, Play		
207	2-B	22708568	Retaining Ring, 2mmd			245	4-F	25782422	Lever, Play		
208		22707350	Screw, BID Hd. 2.6d x 5mml			246	4-E	25762404	Pad, Erase Head		
209		22707361	Screw, PAN Hd. with Washer 2.6d x 8mml			247	4-E	25791301	Shaft Assy., Head Pad		
210	2-G	22707429	Screw, Special, 2.6d x 4.9mml			248	5-A	25777040	Spring, Erase Head		
212	3-G	25755480	Belt, Drive			249	4-C	25776516	Spring, Lock Slider		
213		25761238	Cushion, Motor			250	4-B	25776317	Spring, Head Mtg.		
214	2-B	25773526	Spring, Pressure Roller			251	2-B	25712408	Reel Drum Assy.		
216	2-B	25717484	Pressure Roller			252		25734448	Fixing Plate		
217	3-F	25797045	Flywheel Assy.			253	4-F	25773529	Spring, Play Lock Lever		
218	3-E	25717472	Holder Assy., Capstan			254	4-E	25776288	Spring, Play Lever		
219		25754304	Reel Coller			255	4-D	25771806	Spring, Play Slider		
220	3-B	25754383	Reel Drum			256	5-B	25783234	Mtg. Plate, Head		
221		25754384	Reel Cap			257	3-F	25777071	Spring, Flywheel		
222	3-B	25756241	Transfer Gear			258	5-B	22708523	Screw, BID Hd. 2d x 3mml		
223		25766050	Washer			259	3-F	25764486	Washer, Flywheel		
224		25777033	Spring, Reel			260	4-A	22707923	Screw, BID Hd 2d x 6mml		
225	2-B	25713581	Lever Assy., Take-up			261	5-A	25748539	Lever, Erase Head		
226	4-B	22757120	Steel Ball, 3mmd			262	5-B	25776142	Spring		
227	4-A	22707669	Screw, BID Hd. 2d x 2mml			263		25764597	Washer, Reel Drum		
229	4-A	25772240	Spring Head			264	5-A	25735256	Washer, Erase Head		
230	4-B	25779140	Spring Head Slider			265	2-H	25776313	Spring		
231	5-A	25783258	Nut, Special			266	5-C	25776316	Spring		
232	3-F	22707366	Screw, BID Hd. 2.6d x 6mml			267	4-C	25741851	Adjusting Plate, Head		
233	4-C	25782425	Lock Slider			268	4-B	25708524	Spacer, Adjusting Plate		
234	4-G	25783226	Bush			269	4-B	22708524	Screw, BID Hd. 2d x 4mml		
235	4-B	20755722	Eject Lever Assy.			270	3-E	25735257	Washer Pad Pin		
236	3-B	25762406	Friction Felt Shoe			271	2-D	22707301	Screw, BID Hd. Tapping 2.6d x 8mml		
237	3-B	25782418	Tention Lever			272	3-C	22708533	Screw, BID Hd. 2.6d x 8mml		
238	4-B	25783199	Washer, Tension Lever			273		22708525	Screw, BID Hd. 2d x 5mml		
239	4-C	22708529	Screw, BID Hd 2.6d x 4mml			274	5-B	22707426	Screw, BID Hd. 2d x 5mml		
240		20798033	Ring			275	5-F	22708562	Washer, 3mml		
241	5-C	25741833	Slider, Play			277	4-H	22707445	Screw, BID Hd. 3d x 6mml		
242	4-F	25756248	Cam Gear, Play			278	3-G	25764593	Washer, Thrust		
243	5-G	25782414	Lever, Solenoid			279	1-G	25766064	Sheet, Protector		
						280	1-E	22753786	Washer		

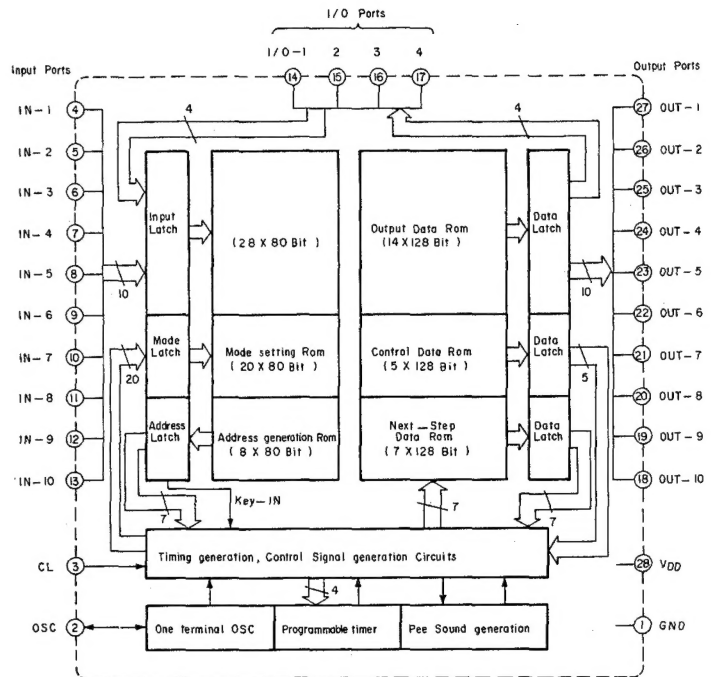
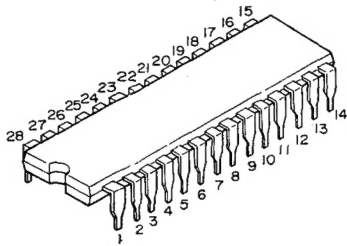
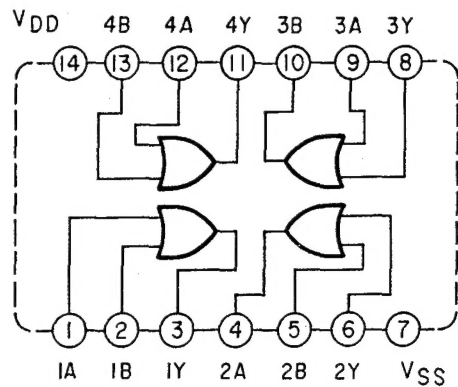
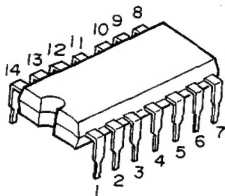
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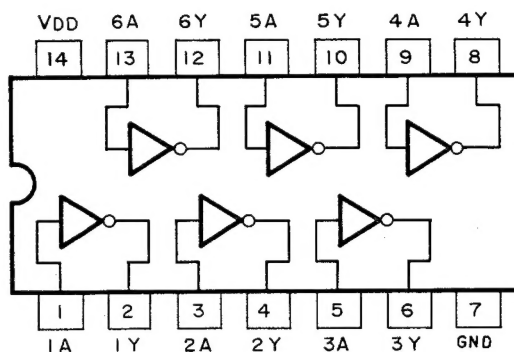
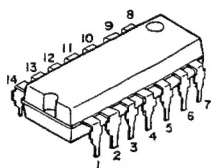
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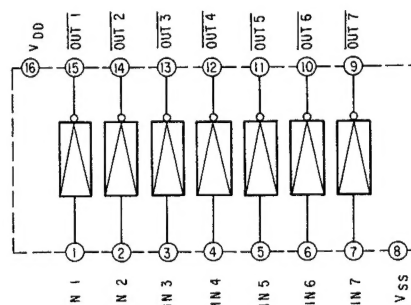
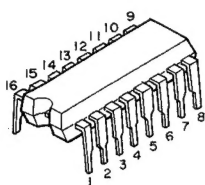


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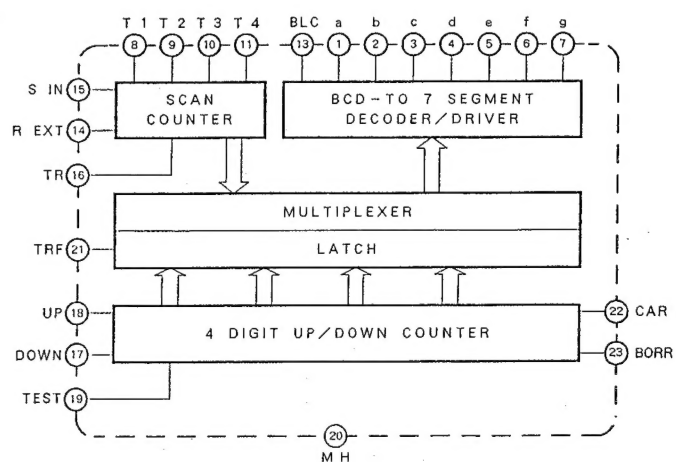
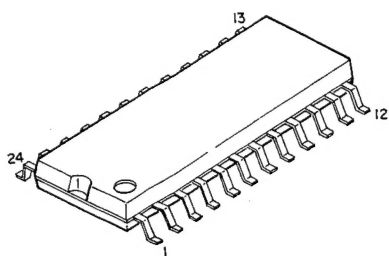
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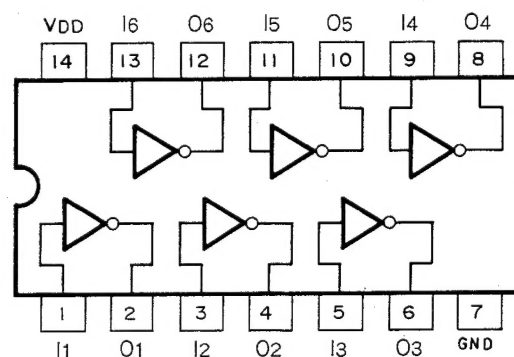
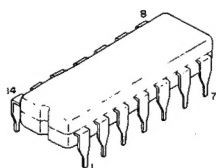
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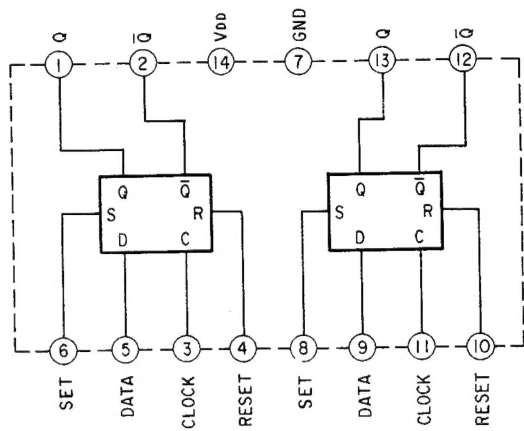
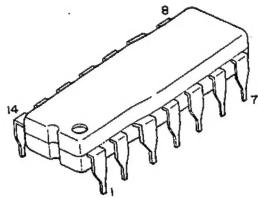
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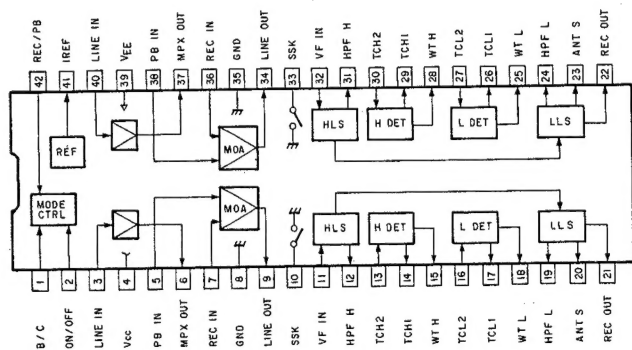
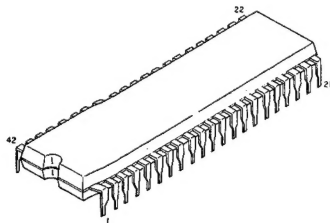
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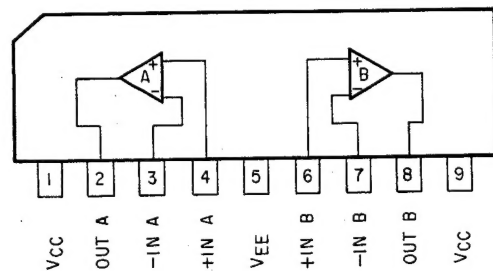
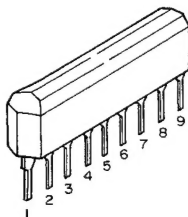
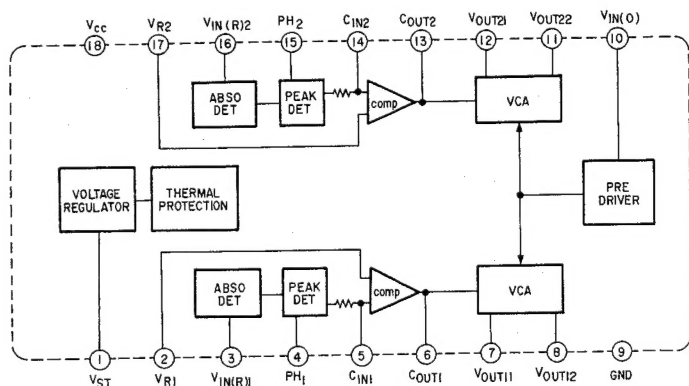
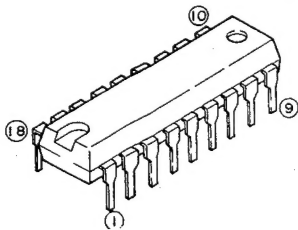
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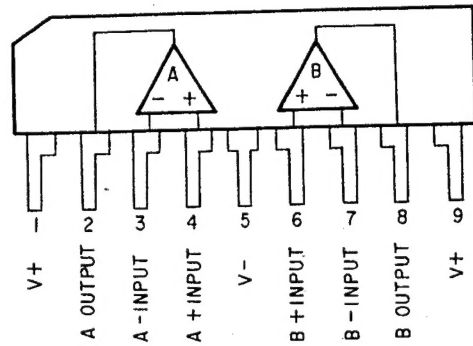
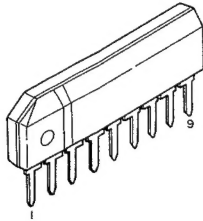


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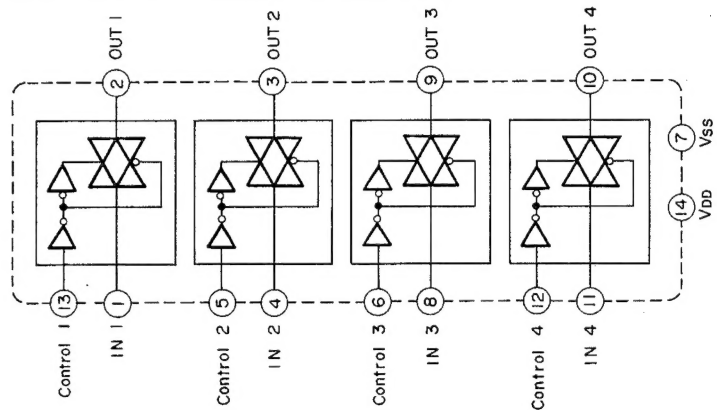
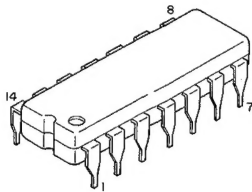
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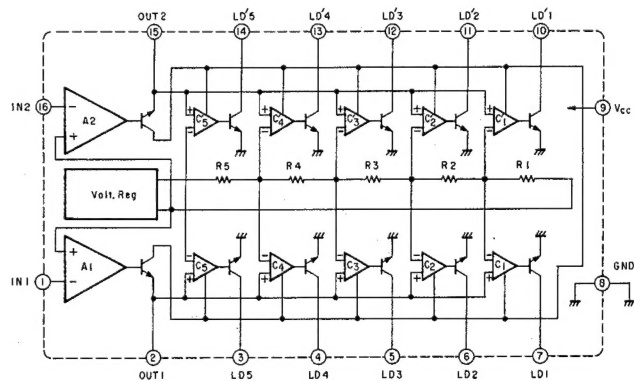
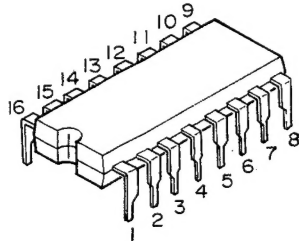
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 μ PD4050BG : Q902, 903